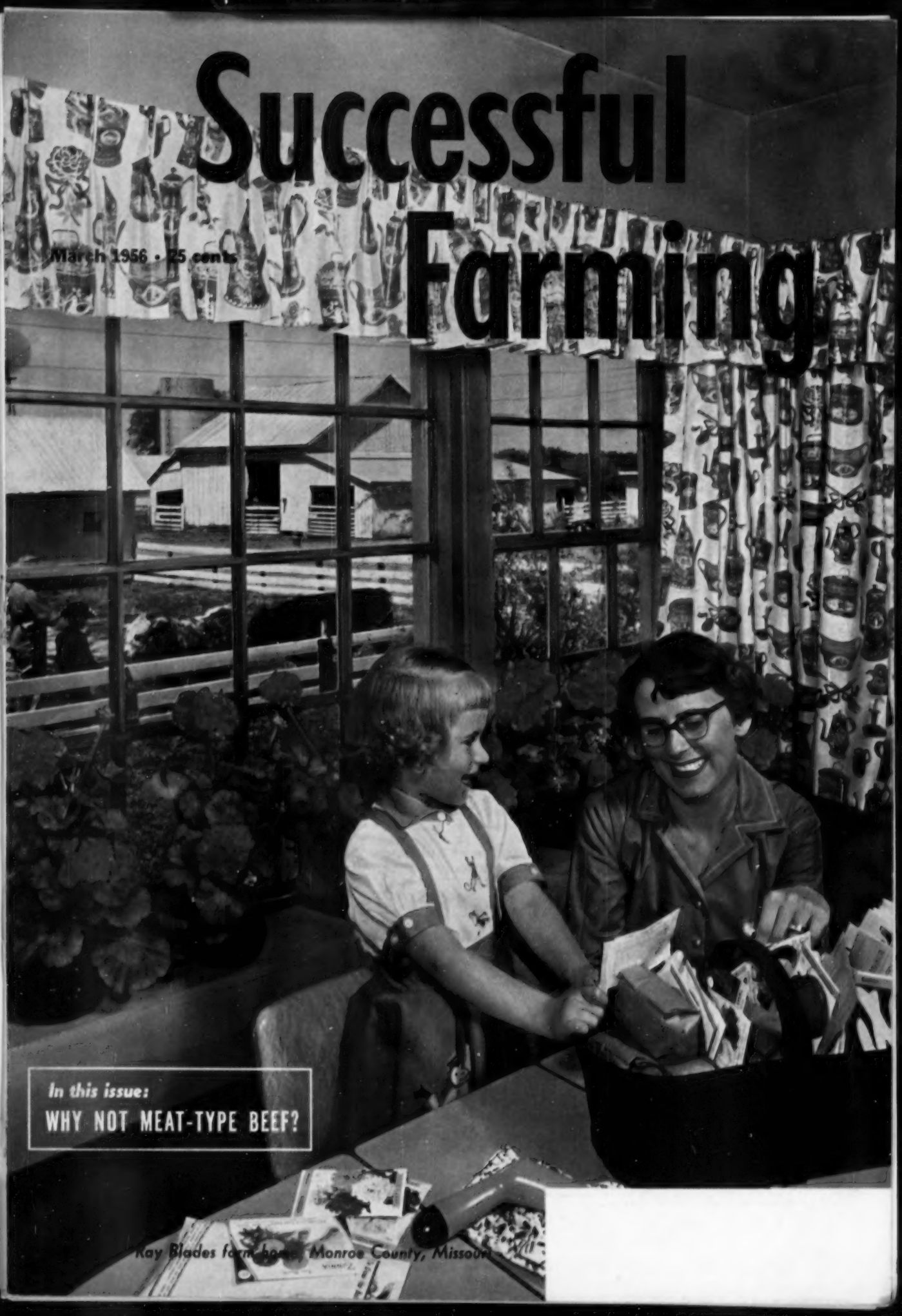
Successful Farming

March 1956 · 25 cents



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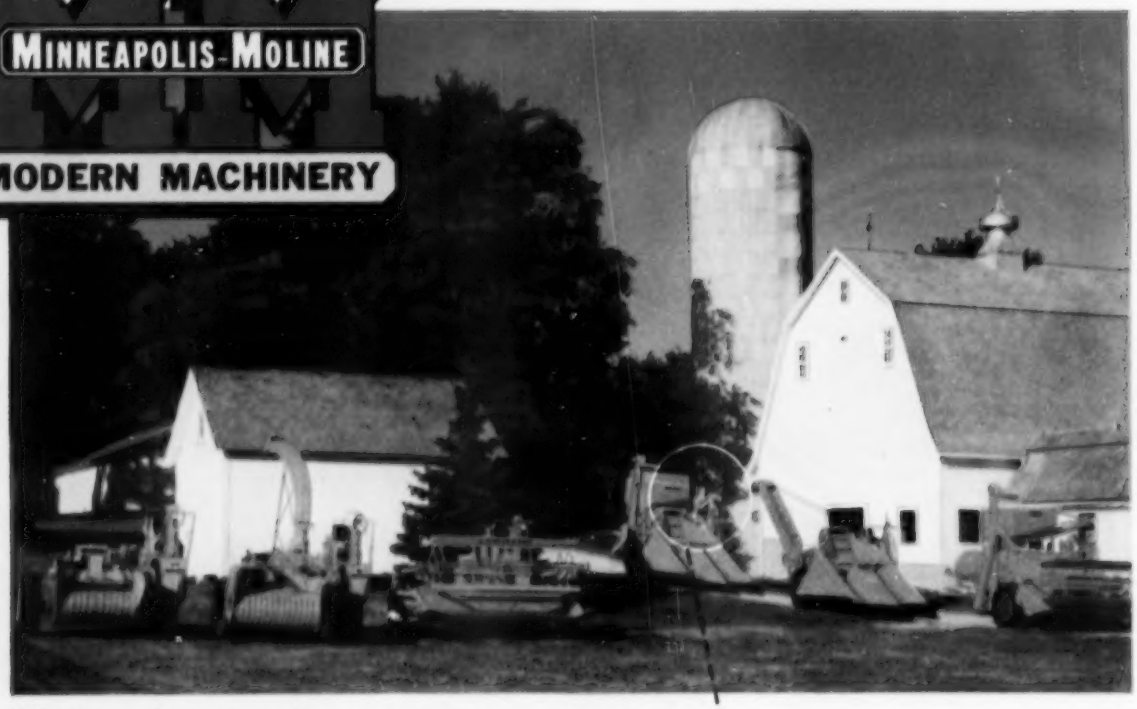
WHY NOT MEAT-TYPE BEEF?

Ray Blades farm home, Monroe County, Missouri

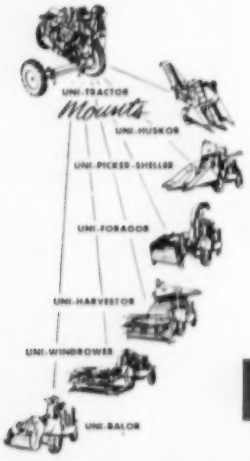
MINNEAPOLIS-MOLINE

MODERN MACHINERY



Modern farming has gone piggy-back, so

This Farm Fleet has a One-Man Crew!



Motomation has reached the farm!

With a Minneapolis-Moline Uni-Farmor, you command a self-propelled squadron of machines that lets you harvest virtually every crop you grow . . . and you do it from a single power source. You cut hay with the Uni-Windrower, bale hay with the new Uni-Balor. You turn hay or row crops into silage with the Uni-Foragor. You harvest grain, bean, or seed crops with the Uni-Harvestor; pick corn with the Uni-Huskor or pick *and* shell your corn with the Uni-Picker-Sheller. And, all SIX Uni-Farmor machines mount on the same Uni-Tractor. *One man* runs them all!

Only Minneapolis-Moline builds the Uni-Farmor. It is another of the outstanding engineering achievements that have given this 131-year-old company *idea leadership* in the farm machinery industry. The Uni-Farmor is one more reason why thousands of American Farmer-Businessmen look first to MM for machines to make farming pay a better profit. It is on this firm rock of acceptance and trust that MM builds for American Agriculture.

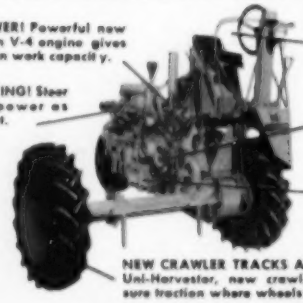
MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

WINNER . . . AND STILL CHAMPION!

In the 1954 International Mechanical Corn Picking Contest MM Uni-Huskors placed 1st, 2nd, and 3rd. Now, in the 1955 contest, the Uni-Huskor proved its Championship by taking 1st Prize in 2-row U.S. competition and placing 1st, 2nd, and 3rd in All-Canada Self-Propelled Corn Picking Contest.

NEW UNI-TRACTOR OFFERS NEW POWER . . . NEW HANDLING EASE!



20% MORE POWER! Powerful new high-compression V-4 engine gives you a big boost in work capacity.

NEW POWER STEERING! Steer with hydraulic power as standard equipment.

SELF-PROPELLED VISIBILITY! Puts you on top of every job.

NEW UNI-V DRIVE! The strength and simplicity of flat belts . . . the speed and grip of V-belts.

UNI-MATIC HYDRAULIC CONTROL! Finger-tip handling of all Uni-Farmor machines.

NEW CRAWLER TRACKS AVAILABLE! On Uni-Harvestor, new crawler tracks offer sure traction where wheels can't go.

There's more than meets the eye to straight-lug Wedge-*in* action!

Why Super-Sure-Grip does more work, keeps tire costs low—

EXCLUSIVE, RULER-STRAIGHT LUGS, coming closer together at shoulders (A) take a "wedge-in" bite that *firms* loose soil—gives "the greatest pull on earth!"

O-P-E-N C-E-N-T-E-R helps *ruler-straight* lugs bite deeper, pull better!

LONG, EVEN WEAR — *ruler-straight* lugs work evenly against soil, roll smoothly on road — and so wear slowly and evenly!

Goodyear, Farm Tire Dept.,
Akron 16, Ohio

OFFSET DISCING — when the job can't wait and the frost is hardly out of the ground — can be a sticky, slippery, time-killing mess.

And how it shows up the real value in tractor tires! *Extra* value like Goodyear's *ruler-straight* lugs with *wedge-in* action!

Other treads may look enough like Super-Sure-Grip to fool you in the store—but they can't fool Old Man Slip 'n' Slide in the *field!*

Yes, it takes the REAL THING to save you important time, gas and money. That's why the latest survey shows—

MORE FARMERS PREFER GOODYEAR TRACTOR TIRES THAN ALL OTHER MAKES *PUT TOGETHER!*

GOODYEAR TIRES

Look for this sign; there's a Goodyear dealer near you.

GOODYEAR

Super-Sure-Grip Tractor Tires

Super-Sure-Grip—
T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

SUCCESSFUL FARMING'S NEWS OF THE MONTH

Propose multimillion dollar

Demand-expansion plan for meat

Omaha, Nebraska—A newly-proposed multimillion dollar national promotion plan for expanding demand for meat may grow out of the many grassroots meat promotion campaigns held throughout the Midwest in the past few months.

Farmers and meat industry leaders are enthusiastic about the prospects. The promotion idea is in line with thinking expressed in *Successful Farming's* plea for more promotion of farm products—see "Agriculture's Next Big Job —Make People *Want* Farm Products," page 43, August, 1955.

A uniform checkoff program is the basis of a National Livestock Product Promotion Plan proposed at a joint meeting of 75 livestock producers and meat industry leaders from Iowa and Nebraska in Omaha recently.

The plan would raise from 10 million to 28 million dollars for a national meat promotion, education, and advertising program controlled by the producers. A checkoff of 10 cents on cattle, 5 cents on hogs, and 2½ cents on sheep would amount to about 10 million dollars. Raise these amounts to 25, 10, and 5 cents and this figure climbs rapidly to 22 million.

This money would be collected by the commission companies or the buyers and channeled to a National Livestock Promotion Commission for distribution.

A recent survey of beef producers in Iowa indicates that this segment of the livestock industry is ready to foot their share of the bill. Of the 1,300 farmers contacted by the Iowa Beef Producers Association, nearly 99 percent expressed the belief that more money should be spent for research, education, and promotion to increase beef consumption.

When these producers were asked how this promotion should be financed, 80 percent chose a uniform checkoff at the market, 27 percent wanted the money to be state appropriated, and 7.5 percent suggested contributions on a voluntary basis. (Some producers wanted a combination of financing, which caused percentage figures to total more than 100.)

Now they're judging frozen hogs

Stillwater, Oklahoma—For the first time in the history of swine shows, a class of barrows, frozen with the hair off, was used to demonstrate the quality of cuts at the Hampshire breed's Southwestern Conference here.

Those attending were given a chance to estimate back fat, length, and loin area, and give each animal a final rating based on carcass value.

Then the frozen animals were sawed into cross sections showing the size of the body cavity, size of the loin, thickness of the belly side, lean streak of the side, general meatiness, and fat covering.

The difference in the quality of pork cuts from hogs of the same weight was effectively shown.

The standards used by the Hampshire Association in its Certified Meat Hog program served as the final analysis of merit in judging the hogs.

On the cover

Paris, Missouri—There's a note of spring in the air at the Ray Blades farm home in Monroe County, Missouri. While Lucille and daughter Joy get the garden seeds ready, Ray helps son Kent prepare his 4-H calves for summer showing.

Overlooking the farm in three directions, this kitchen eating area is bright and cheerful as a summer breeze.

See page 118 for directions on how to make the planter shown here.

Photograph: Reynolds, Photography, Inc.

Stilbestrol pellets OK'ed for feeder cattle

Now, for the first time, stilbestrol pellets can be used by cattlemen, as well as poultrymen, to get extra meat gains by the implant method.

Used by poultrymen for years, the Food and Drug Administration has approved the marketing of stilbestrol in pellet form for use by cattlemen.

The technique of stilbestrol "ear" implant employs the same implanter and pellets used by poultrymen—but the dosage varies.

House-Senate committee may work out farm bill

Washington, D. C.—Key to farm legislation now is the Senate-House Conference Committee set up to iron out differences between Senate and House bills.

This means the bill finally adopted by Congress will tend to be much more "liberal" than the administration program. The Senate-passed bill is not expected to go to the House, but directly to the conference committee—since the House passed a bill to restore 90-percent supports last year and sent it to the Senate for consideration of the Senate Agriculture Committee.

The conference committee was likely to contain at least 14 members—7 senators and 7 representatives. This would include 4 Democrats (the majority party) and 3 Republicans *from each house*.

The makeup of this committee is important in determining the kind of legislation that would come out of it. Democrats on the committee would be: Representatives Cooley (N. C.), Poage (Tex.), Grant (Ala.), Gathings (Ark.); and Senators Ellender (La.), Johnston (S. C.), Holland (Fla.), and Anderson (N. M.). Republicans would be Representatives Hope (Kans.), Andresen (Minn.), Hill (Colo.), and Senators Aiken (Vt.), Young (N. D.), and Thye (Minn.).

Note this: *Only 3 in this group could be expected to stick with flexible supports* and other portions of Eisenhower-type programs—Senators Aiken and Anderson, and Representative Hill. *The majority favors high supports plus bigger immediate benefits to farmers.*

SUCCESSFUL FARMING MARCH 1956
VOLUME 54 NUMBER 3

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In 10 short years you can provide paid-up life insurance protection for your family—or retirement security for yourself

It's a comforting feeling to know your home and your family are protected against the winter. More comforting still, to know they'll be *financially* secure during all the winters to come! You can have such assurance *right now* with a modern insurance plan from New York Life. And just 10 years from now you can have your plan completely paid up—and own *lifetime* protection!

New York Life's 10-Payment Life insurance coverage assures protection for your family, if you should die, by providing immediate cash to settle debts, pay estate taxes—help to *keep* the farm in the family. Or, if you live, and chances are you will, your policy can pay you a monthly income at retirement *for life*—no matter how long you live!

Cash values build rapidly, as payments are made. That means funds available for an emergency or perhaps to help you establish a favorable credit rating for farm improvement loans and the like.

A New York Life limited-payment plan—whether 10, 15, 20 or 30-Payment Life—is an economical way to stockpile security for the years ahead. The New York Life agent in your county will gladly help you plan an insurance program that fits your needs. See him, or mail the coupon today!

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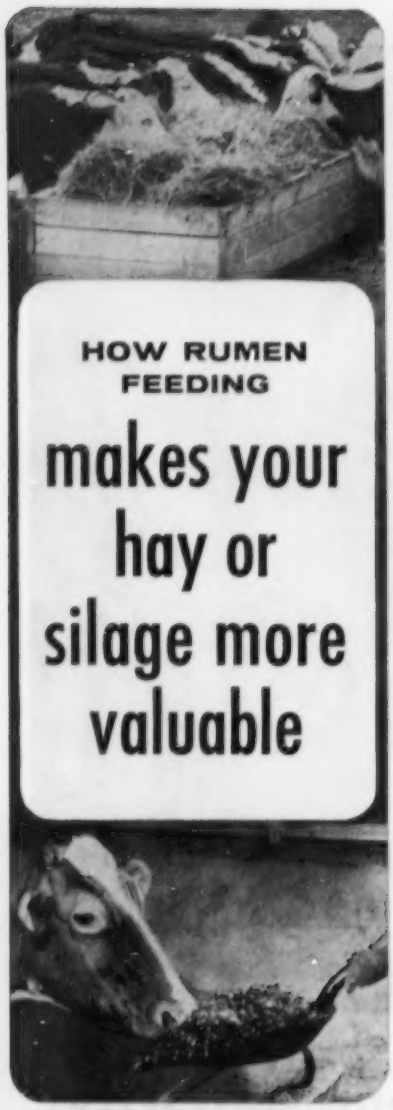

The release of many valuable nutrients in hay, silage and other roughage depends on the activity of rumen bacteria—the "bugs" that help cattle break down and digest all kinds of home-grown feeds.

That's why modern beef and dairy supplements contain Du Pont "Two-Sixty-Two" feed compound—a highly efficient form of urea nitrogen. As a protein source "Two-Sixty-Two" usually costs less. And by stimulating rumen bacteria it adds an important benefit to feeds for sheep and cattle.

As the "bugs" convert "Two-Sixty-Two" to protein, they multiply faster and work harder. Feed energy, otherwise wasted, is unlocked from stems and stalks to produce milk or make beef. Check with your feed man. Be sure your supplement contains "Two-Sixty-Two"—to help you get the most value from the roughage you grow.

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FEED COMPOUND

DU PONT
REG. U. S. PAT. OFF.

Better Things for Better Living . . . *through Chemistry*

Successful Farming®

March, 1956
Vol. 34, No. 3

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"My Gasoline is RED CROWN"

...says Plowing Champion
ROBERT C. ERICKSON

Bob Erickson of Kendall County, Illinois, has been winning plowing contests since he was 14. In 1954, he won both the Illinois and the National Level Land Plowing Matches. On October 7 and 8, 1955, he represented the United States in the World Plow Matches held at Uppsala, Sweden. Plowing under conditions and rules that differ greatly from those in this country, he placed eighth out of 23 plowmen representing the best from 12 countries.

"RED CROWN is the champion of gasolines!"

That's how Champion Plowman Bob Erickson feels about STANDARD RED CROWN. Bob, shown here with Standard Oil Agent Fred Littlefair, is holding the trophy he won as U. S. National Champion. Bob and his father, Robert J. Erickson, farm 312 acres and they've used STANDARD Gasoline since 1917. They say, "We tried another kind, for a while, but it just wasn't as good so we switched back to Standard again."

GET THIS FREE SERVICE!

"Fred Littlefair never lets us run out of gasoline. He also gives us plenty of extra service, like checking our storage tank for moisture from condensation," says Bob Erickson.

Your Standard Oil Man also has this special equipment to check your storage tank for moisture from condensation. Call him and ask for this *free* service, if he hasn't already been out to check your tank.

How's *your* gasoline supply? Get ready for spring work—call your Standard Oil Agent, *today*, for a fill of RED CROWN. Then you'll be all set with the kind of fuel, service and delivery to make your farming more pleasant and more profitable!

You expect more from STANDARD and get it!

QUALITY PRODUCTS • FRIENDLY SERVICE • DEPENDABLE DELIVERY

FARM OUTLOOK FOR MARCH

This month's highlights

- **Hog prices should start up again in May**
- **Time to sell low-grade cattle approaching**
- **Soybeans look better for acres diverted from corn**
- **Sell feed grain you don't need any time now**
- **Dairy supports may be raised effective April 1**

Hogs—up, down, up

If the hog market behaves as expected, the spring low will come in late March or April—following a recovery of sorts in January and February. *The market is likely to slip in March* as the 12-percent bigger fall crop begins to show. The spring run of fall pigs is expected to start tapering about April *with a price rise beginning in May*—and heading toward a summer peak.

But, the draggy market is hard to predict. At press time, it was still suffering a "hangover" from the fall glut. Experts say it *could* snap out of it in a hurry and pick up pretty fast.

Summer hog prices

Two things hold the key to late spring-early summer market: U.S.D.A. pork-product buying, and cold storage stocks. U.S.D.A. increasingly is trying to "psychologize" strength into the market. A bigger buying operation was under way. Build-up of cold storage holdings has been moderate—pointing to less competition with fresh stuff this summer. Both keys will bolster prices to some extent.

Prices late next fall and winter have a good chance to be $2 to $3 above those of late 1955 and early '56.

Higher dairy supports?

Dairy price supports may be increased for the year beginning April 1. Don't count on it yet, but there's a glint in the bureaucratic eye.

The Administration has embarked on a drive to boost your income—and higher dairy supports are being seriously considered. This could be justified by a reduction in government dairy-product buying operations last year. Announcement due by the end of March.

Grains at top

Feed grain prices, including corn, now appear to have come up almost as much as they may this winter. The surprising strength in prices is due to the large amount of grains going under loan.

Narrow cattle spread

Spread between prices of high-grade fed steers and lower-grade stock is expected to narrow as spring approaches—following a temporary widening. Worst of the glut from previous season is over. It's a winter of big supplies and treacherous prices.

Don't be fooled by the report showing only 1 percent more cattle on feed as of January 1. Ordinarily, this would mean little change from last winter's marketing pattern. But this year, a bigger percentage of those in feedlots are of heavier weights and more nearly ready for markets. *This points to heavy marketings and weak prices for the next month or so.*

Move your low-grade cattle before hot weather.

Higher soybean support

Higher price support for soybeans is an unexpected blessing for 1956—coming on the heels of our advice to grow more beans this year. President Eisenhower thought soybeans important enough to promise an increase in his special farm message.

You now have the green light to go heavy on beans—but as one U.S.D.A. official (nonpolitical) says: Farmers also have the responsibility of looking ahead. What he meant was that the big export market—which is the springboard for higher supports—may not last.

If it collapses in the next year or so, it could mean serious surplus troubles ahead. This very thing happened most dramatically to rice. For several years, the world took all we could produce. Then last year the export market folded, leaving us with almost 3 years' surplus supply.

Flaxseed support up, too

Flaxseed support will be higher this year—also a promise by the president in the farm message. A 5-percent increase expected, from last year's 65 percent of parity rate, would boost the national average loan from $2.91 a bushel to about $3.06. A bigger boost is possible. Demand for flaxseed continues strong both for export and domestic crushing.

Read labels closely

This year it's more important than ever to read the label on chemical pesticide packages—and to follow the directions closely. The Food and Drug Administration is set to crack down hard on farm products going into interstate markets with poisonous amounts of chemicals.

Every pesticide chemical now has a fixed limit—called tolerance—which is considered safe to the consumer. You can be sure, says the F.D.A., that you are within the law if you follow label directions to the letter. If your crops have more than the legal limit, they may be confiscated. So don't experiment with pesticides on crops and spraying times not recommended.

Important dates

Grain support dates to keep in mind: May 31, last day to put corn under loan; July 31, last day to redeem corn loans; March 31, deadline for redemption of wheat and sorghum loans; April 30, deadline for redemption of oats and barley loans; May 31, deadline for redeeming loans or delivering soybeans; April 30, flaxseed loan redemption date.

Wool payment

Federal wool payments this summer will average somewhere in the range of 19 to 23 cents a pound for wool shorn and sold during the year ending March 31. The payment is due this summer under the 1954 Wool Act. Average market price for the year may come to around 39 to 43 cents a pound. The support rate is 62 cents.

Wool rule change

Note that more wool growers will be eligible for federal payments under a change in rules announced by the U.S.D.A. for the program beginning April 1. Under the change, each farmer or rancher who sells unshorn lambs will be eligible for payment—provided he's owned the animal for 30 days or more—made on the weight or weight increase of the animals that occurs during his ownership.

Preparing a spinach field for new planting while harvesting still goes on in the background. In such a closely timed operation, breakdowns are costly—another reason Templer & Bookout demand Champion Spark Plugs in all engines.

Here is one of two 35-h.p. lift pumps that have the rugged job of keeping a steady stream flowing to thirsty plants. Naturally the pumps are equipped with reliable Champion Spark Plugs.

"Popeye made spinach more popular— CHAMPIONS make it more profitable"

says O. W. Templer
of Crystal City, Texas,
spinach capital of the world

"We raise more profitable spinach by using machinery at every possible step," reports Mr. Templer, of Templer & Bookout, one of Crystal City's leading growers. "And that machinery must be dependable. Pumps sometimes run day and night without stopping, irrigating our entire spread. A breakdown could ruin a crop. The harvested crop must be rushed to northern winter markets to get top dollar. That's why the dependability of Champion Spark Plugs is so important to us—why we say Champions help raise better and more profitable spinach."

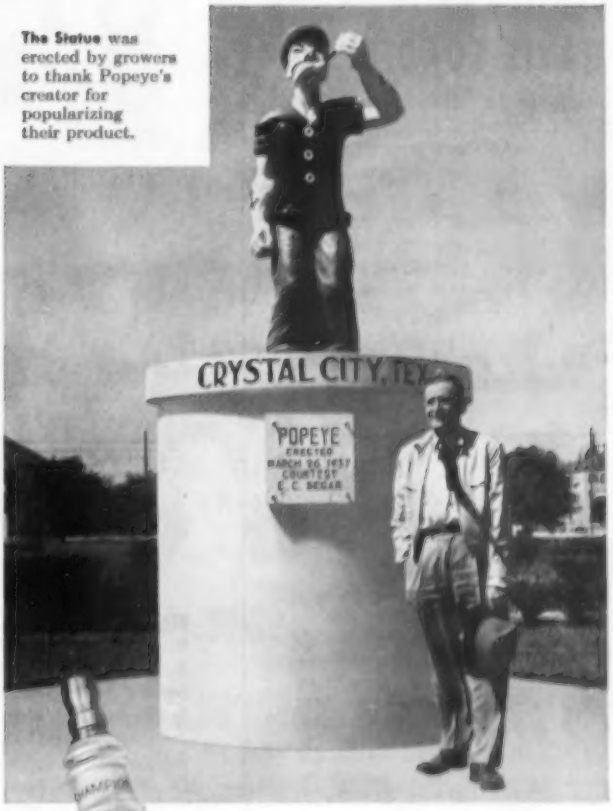
Templer & Bookout have 500 acres in spinach. Last year they shipped 216,000 bushels of fresh spinach to New York, Philadelphia, Boston, Detroit, Chicago, and the Pacific Coast states as far north as Vancouver, Washington. Well-known "Templer's Spinach" commands a premium price in eastern markets.

The only Crystal City growers who row crop and cultivate, Templer & Bookout use plenty of mechanical equipment, including eight tractors. A small fleet of cars and trucks helps them get around fast on their scattered acreage. Experience has convinced them Champions can't be equalled for reliability and economy. Champions help assure them top engine performance.

If you want the best possible performance from all your engines—steady, economical performance—be sure those engines are equipped with dependable, full-firing Champions, the best spark plugs you can buy.

CHAMPION SPARK PLUG CO.
TOLEDO 1, OHIO

The Statue was erected by growers to thank Popeye's creator for popularizing their product.



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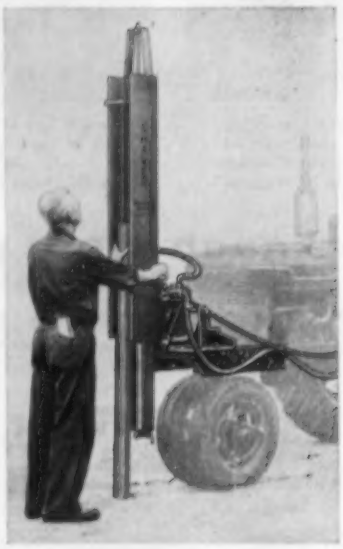
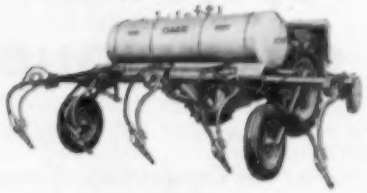


Hydraulic post driver. Said to set as much as 80 rods of wood fence posts in 80 minutes, this hydraulic driver handles steel posts as well. Hydraulic feature provides as much as 40 strokes a minute.

Unit can be stored by hanging ram on post.—*Shaver Mfg. Co., Graettinger, Iowa.*

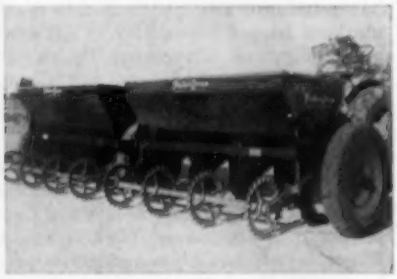


Ammonia applicator. Principal feature of this machine is PTO-driven rotating spindles used to penetrate and loosen the soil. These "live openers" are said to assure more soil-held ammonia, require less drag behind tractor.

Applicator does not require rear press wheels.—*J. I. Case Co., Racine, Wis.*

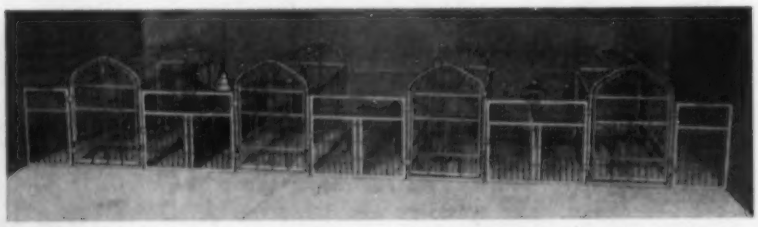
Electric-fence post. This electric-fence post is a rod equipped with plastic insulators, threaded and slotted so when wire is placed in position, one-fourth turn will securely hold wire.

Bent strap iron holds post in upright position, both ways.—*Record Products Co., Fort Dodge, Iowa.*



Press drill. Designed especially for use over large pasture areas, this unit, double the size of standard one, plants and fertilizes.

It is said to be ideal for planting cover crops on row-crop land without seedbed preparation. Total width covered each trip over is 13'4".—*Taylor Machine Works, Louisville, Miss.*



Farrowing stalls. It's not necessary to fasten these units to ceiling or floor. Steel panels link the stalls together. When stalls are not in use, they may be folded for easy storage or removed to make room in building for other uses. Stalls are 26" wide, 6'6" long.—*Caswell Mfg. Co., Cherokee, Iowa.*

...it's the healthy animal

not just the "normal" one

that really pays off!

Your cattle can *look* normal, and still be unhealthy and not make maximum gains.

The reason is "sub-clinical" disease—disease you can't *see*. It can be *there*—sapping the animal's vigor, using up part of the feed, holding down weight gains.

Today, there's a new way you can help prevent sub-clinical diseases and keep cattle *healthy!* Feed, from start to market, good rations that contain the world's greatest disease-fighter: AUREOMYCIN Chlortetracycline. It costs no more than 1¢ per head per day!

Cattlemen say that cattle fed AUREOMYCIN stay healthy, show a better bloom, make better gains. They report that cattle stand up under the stresses that usually follow weaning, shipment, changes in environment and diet. They report greater dollar returns.

Where to get AUREOMYCIN. AUREOMYCIN is supplied to feed manufacturers and feed suppliers in the form of AUROFAC® Feed Supplements. Two new AUROFAC products—AUROFAC-A and AUROFAC-A Crumbles—are especially adapted to cattle feeding. Write for free booklet: "AUREOMYCIN for Cattle Feeding."

Feed from start to market... the world's greatest disease-fighter ®

AUREOMYCIN

American Cyanamid Company FINE CHEMICALS DIVISION 30 ROCKEFELLER PLAZA, NEW YORK 20, N.Y.

fabulous NEW MH50 WITH 2-3 PLOW POWER

The miracle from hydramic

ENGINEERED TO TRIGGER A NEW

we predict...

your first 5 minutes at the wheel of the Hydramic Powered MH50 will change your whole concept of what a tractor can do

Instantly you know it! This is tractor design of the future. Hydramic Power! Miracle design! So far advanced it sheds the shackles of conventional engineering to trigger a new tractor age. More power . . . more traction. Hums along at an effortless fraction of its reserve on light jobs . . . flashes into full power at a touch of the throttle. New Hydramic Power! High-profit-power! And only the Massey-Harris MH50 has it.

TorqueMaster 4 Engine—where Hydramic Power begins. Rugged, steady, hi-torque power that stays on the pull at the low rpm's.

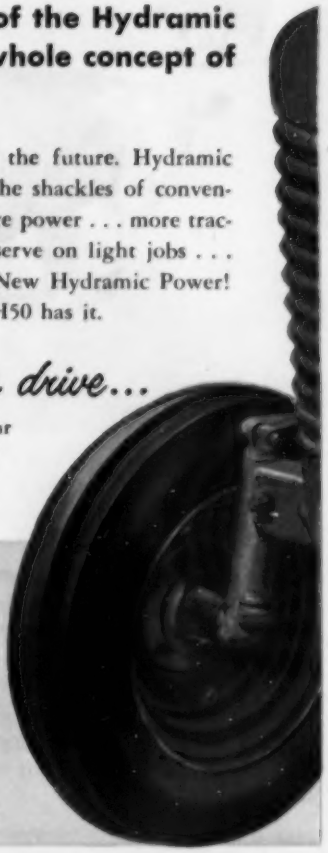
6-Speed Hi-Lo Transmission—gives you the right ground speed for every job with the engine operating at its most efficient rpm.

Duo-Range Clutch—One clutch pedal, working through two stages, controls both the forward travel of the tractor as well as the live PTO.

Draft Monitor 3-Point Hitch—automatically steps up traction as the pull gets heavy. Instantly matches pull power to the load. Fits all standard 3-point hook-up tools.

Hydramic Master Control—Nerve center of Hydramic Power. Fingertip control of depth, raising and lowering of implements, position, speed of hydraulic response.

Double-Duty PTO—Two power-take-offs—one driven by the engine at ASAE standard rpm, the other driven by the final drive gear in ratio to ground speed.



Take a miracle demonstration drive...

See-in-action this miracle from Massey-Harris . . . on your own farm, under your own conditions. Call your Massey-Harris dealer today. Arrange a miracle test-drive . . . and get an attractive gift for your promptness. For folder write Massey-Harris, Dept. C-110, Racine, Wis.

Always **keep your eye on**

Massey-Harris

Massey-Harris

power

TRACTOR AGE

4 WHEEL STYLES . . . ALL DESIGNED FOR FRONT-MOUNTED CULTIVATION

ROW CROP HIGH ARCH

The stability and compactness of standard-tread design plus 27-inches of crop clearance for all types of row crop work.

ROW CROP SINGLE FRONT

Cultivates close-planted rows with unmatched precision.

ROW CROP TWIN FRONT

High clearance and unexcelled vision . . . quick, easy handling down the row and on the headlands.

ROW CROP UTILITY

Low profile . . . the power, tread adjustability and crop clearance you want with a low center of gravity. And it cultivates up front.

It's usable horsepower that counts!

Many passenger car type truck engines have to rev up to high speeds to pull their loads. They strain at the job—cost big money in wear and repair. INTERNATIONAL all-truck engines turn at relatively low rpm—deliver high usable horsepower at normal road speeds, for peak performance, long life, BIG money savings.

International Trucks give you power without strain at safe, economical rpm to save you the BIG money!

Rated horsepower figures don't tell the whole story of truck performance!

Wise truck buyers want to know *more* than rated horsepower. They want to know what actual *usable* horsepower they are going to get to pull capacity loads at normal, legal speeds—without undue engine strain.

Usable horsepower—that's the point to keep in mind when buying trucks.

INTERNATIONAL Truck engines deliver high usable horsepower at economical, wear-reducing speeds. Because they are built for use in *trucks*, with no compromise with passenger car design.

You get the usable power you need, plus longest truck life, every driver comfort and convenience. See your INTERNATIONAL Truck Dealer or Branch for trucks *right* for your farm job—all-truck built to save you the BIG money.

In the world's most complete truck line, there are trucks for every farm job. Pickups. Stakes. Platforms. Combination grain and stock rack models. Every other truck type, including light-duty S-120(4x4) four-wheel-drive (above) that will go anywhere on your farm or on the highway, gives you auxiliary power for a host of jobs.

INTERNATIONAL HARVESTER COMPANY • CHICAGO

INTERNATIONAL® TRUCKS

All-Truck Built to save you the BIG money!

Motor Trucks • Crawler Tractors • Industrial Power
McCormick® Farm Equipment and Farmall® Tractors

FRIEND TO FRIEND

- **We need an ideal for future farming**
- **Operation Home Improvement was planned to help you**
- **Consumers are forcing attention on meat-type beef**

● **Our future can be no greater than our vision.** From that splendid statement I have long pondered the present farm situation. I wonder if there is a national consciousness of **an ideal agriculture for the future?** It sometimes seems like most persons want to keep it as it was when they were boys on the farm.

Technological and economic pressures within and without agriculture definitely block that vision. However, I am convinced the national desire is for, perhaps selfishly, an adequate food supply, and a prosperous and contented farm population that properly conserves soil and water resources for all possible future needs.

In the minds of many farmers I find the same desire to keep farming as it is—certainly as a pleasant, satisfying way of living. For many more there is the vision of great changes in technical and economic forces employed in farm operation. Their ideal is a family farm, but how different in living standards as remembered by men and women who left the farm years ago!

There is a great need for some clear voice to declare in terms acceptable to the nation and to all farmers **an ideal future for American agriculture.** Then our farm programs will begin to make sense. They must have higher objectives than merely holding the line.

● As I was writing, **Sherwood DeForest,** our engineering editor, walked in with an armful of posters which you see above. We are very deeply interested since they came from a national organization called **Operation Home Improvement.** It is made up of a great number of private and public organizations whose objective is *home improvement.* With all our greatly increased interests, the home stands today as the number one undeveloped field in America. I am quoting, as best I can remember, the remark made recently in a public meeting by an economist with the Chicago Federal Reserve Bank, George W. Mitchell.

As a long-time reader of *Successful Farming*, you know how much emphasis we have for years been putting on making the **farm home more pleasant and comfortable.** Our Home Furnishings Editor, Betty Fisk, this year won the highest national honors in her field. Like Betty, DeForest has long experience in home planning. So, we want you to note and understand the purpose of these signs DeForest is showing me.

President Eisenhower has endorsed the home improvement campaign. For farmers, I like his concern in the renewal and restoration of old but still sound dwellings. Farmers cannot move to a new section easily when their houses get out of date. They also have a deep sentimental interest in old family homes not true with most city dwellers. When you see a home improvement sign displayed, you will find help for your home improvement plans. Look for the signs.

● Perhaps some will remember my reference in December to a **meat-type beef animal?** Since that remark in Friend to Friend, Vern Schneider, our livestock editor, has dug up some extremely important pictures and figures. These you will find on page 54. If you are interested at all in future **beef breed development,** you must study them carefully.

Since Vern brought in the first charts, I have taken a special interest in cuts of beef displayed on the meat counters. Certainly, there is a big difference, especially in **loin cuts.**

● Last winter at the National Western Livestock Show in Denver, a friend took me through a special aging room where beef loins were prepared for the high-class restaurant trade. The chance to observe, among hundreds of beef loins, the difference in size of the eye of meat impressed me with the possibilities ahead for beef breeders. Breeders of our splendid herds of beef cattle must be alert to needed improvements all the time.

Kline Fox

THE MAN WITH THE Louden EQUIPPED BARN

Milks with production-line efficiency . . . Gets bigger MILK CHECKS

LOUDEN MILKING PARLOR STALLS—pay off even on small farms. Move cows in and out quickly, smoothly, without confusion. Lever operated gates mean operator never has to leave working area. You work erect, too, with udder at chest level. And either tandem or lane-type stalls can be equipped with Louden Lever-Matic Feed System . . . just turn a handle and a measured ration of feed slides from overhead bin to manger.

SANITATION MADE EASY—Louden stalls are simple in design, made of smooth steel tubing. No cracks or crevices in which dirt can hide. Many dairies pay premium prices for milk that comes from parlors like these.

A CLEAN BARN IN 10 MINUTES

Throw the switch on your Louden Dual-Unit Barn Cleaner and 10 minutes later the barn is clean. Litter neatly deposited in spreader outside. Another example of how the man with a Louden equipped barn saves time, operates his farm business more efficiently.

Send for Louden's 96 page Better Barns Book . . . includes complete information on Louden Milking Parlor Stalls, Barn Cleaners, and all Louden Equipment.

Est. 1867

The Louden MACHINERY COMPANY

22 West Court, Fairfield, Iowa

Gentlemen: Send me your big 96 page Better Barns Book. I enclose 10c to cover mailing.

Name _____

Box, Route _____

City _____ State _____

A Subsidiary of Mechanical Handling Systems, Inc.

Kitty Kimsul says:

"Hens make more money in Kimsul-insulated poultry houses!"

Farm studies show that hens in insulated houses lay *more* eggs on *less* feed. And the easiest way to insulate your poultry house—or any building on your farm—is with KIMSUL, the ideal "do-it-yourself" insulation.

KIMSUL needs no special tools. It's easy to cut, measure and handle. KIMSUL is clean—free of irritating dust and slivers.

And KIMSUL gives your buildings the triple protection of a thick fiber blanket, *plus* a reflective aluminum cover, *plus* a positive vapor barrier.

At your Kimsul lumber dealer's—this denim cobbler's apron. Regular $2.50 value —only 89¢

A perfect apron for any "do-it-yourself" job—indoors or out. Has three large pockets, adjustable neck and waist bands. Only at your KIMSUL lumber dealer's and only for a limited time.

KIMSUL INSULATION — A PRODUCT OF Kimberly-Clark

Kimberly-Clark Corporation • Neenah, Wisconsin

THE FARMER'S WASHINGTON®

- **Plant according to present laws if new law is late**
- **Administration beat Democrats to punch with farm plan**
- **Here's an "on-the-limb" prediction of new laws**

Base plans on present laws. If major farm legislation is not passed by the time you have to plant, go ahead on the basis of present laws. This is advice from Allen J. Ellender, chairman of the Senate Agriculture Committee and the key man on farm legislation this year. Senator Ellender tells *Successful Farming* readers:

"The best advice I can give to farmers who are caught between the need to plant and forthcoming new laws which will affect production and prices is to *make plans and plant according to the laws now on the books.* Important changes may be made, but they may not be in operation until many of you have started to plant—especially if we don't get the kind of non-political cooperation we need for a fast job."

New laws will be retroactive. "Any new laws that Congress passes will be made retroactive to the beginning of the planting season," Senator Ellender told us. "You undoubtedly will have the opportunity to cut back your plantings in order to take advantage of the benefits in new laws. This means that you may be permitted to plow under seeded land in order to conform—as in the case of wheat which was planted last fall. For those crops on which farmers have voted marketing quotas—wheat, cotton, rice—our hope is to provide better price supports.

"In other words, you should go ahead as usual. Then, when, and if new benefits are approved, make up your own mind on the best—and most profitable—course to follow. We're trying to give you the best farm program possible in this emergency period—for the most possible help this year," the senator said.

Unity still not evident. Don't bet on the kind or extent of a new farm program you'll get this year. Despite pleas for a non-partisan, unified approach—the odds are against it. Here's why:

1. Farm organizations will not pull together, according to early indications.

Senate Committee Chairman Ellender repeatedly has urged the major farm organizations to unite behind one approach to the farm problem. Grange, Farmers Union, National Council of Farmer Cooperatives, and the Milk Producers Federation met twice as a result. Although invited, Farm Bureau declined to attend on grounds the Milk Producers, is not a general farm organization.

2. No effective political truce is likely in Congress. Jockeying for political advantage started with the special farm message to Congress in January.

Secretary Benson's about-face. With the message's billion-dollar soil bank plus fringe benefits, many Washington critics see it and Secretary Benson's congressional testimony as an almost bizarre about-face by the secretary who has been

Secretary of Agriculture Benson testifying before the Senate Agriculture Committee

pooh-poohing the "farm emergency" for the past 3 years. Stripped of high-sounding platitudes, they say the new plan is a bold bid for the farm vote in the 1956 presidential-congressional race.

Thus the Administration beat Democrats to the punch. Democrats' play for the farm vote will come when Congress sends the farm bill to the White House.

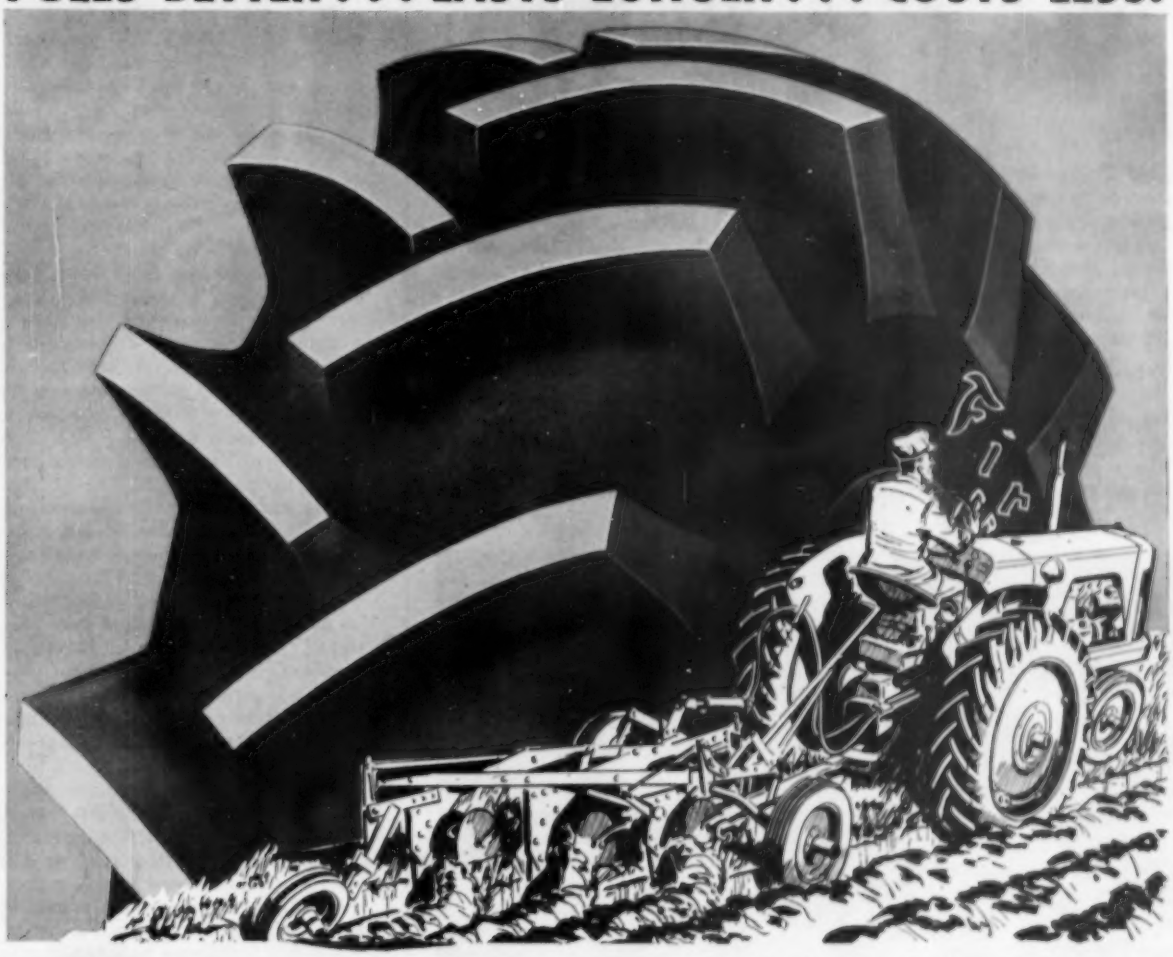
What kind of farm bill does this mean? In general, it means an omnibus measure having much of what the Administration wants, like the soil bank, plus much that it doesn't like, such as a bigger measure of 90-percent price supports. Some such one-two punch now is planned. It will be up to Ike to approve something he doesn't like, to get something he does—or to veto. *It thus is possible that no new major farm law will be approved this year.*

Going out on a limb, here is our specific evaluation of prospects for major points of the Administration farm plan, sponsored by Senator George D. Aiken, of Vermont.

Soil bank will be passed by Congress, but important changes *may* be made—such as making participation mandatory instead of voluntary as proposed.

[*Turn to page 18*

PULLS BETTER . . . LASTS LONGER . . . COSTS LESS!



Firestone DEEP TREAD

COMPARE the Firestone "Deep Tread" with other tractor tires in its price range. You will find the price is low and the famous Firestone quality will give you much more for your money.

Although low in price, the Firestone "Deep Tread" tractor tire has more tread rubber for longer tire life . . . deeper curved and tapered bars and big powerful shoulders for maximum drawbar pull . . . and flared tread openings for positive cleaning in any soil condition.

The new Firestone Safety-Tensioned Gum-Dipped* cord body is the strongest built today. The Safety-Tensioned Gum-Dipped cord body lasts longer and resists costly impact breaks.

Let your nearest Firestone Dealer or Store show you the many money-saving advantages of the Firestone "Deep Tread" tractor tire. He will be glad to quote you the low exchange price for your tractor tire size.

*T.M. Reg. U. S. Pat. Off.

Enjoy the Voice of Firestone on radio or television every Monday evening over ABC

Copyright 1956, The Firestone Tire & Rubber Co.

Why He Swears By Stran-Steel Buildings

Bud Bridgman really knows the horror of fires. In January, 1955, flames consumed five buildings on his 340-acre place in *less than* an hour. But six weeks after foundations were started, Bud was back in business with five fire-resistant all-steel Quonsets.

What's more, Bud finds Quonsets offer other advantages. "Maintenance of my old buildings was expensive," he reports, "but these Quonsets keep most of that money in my pocket. All-steel construction takes little upkeep.

"I'm getting *maximum profits* with minimum labor now," Bud added. "Each Quonset is designed to do a particular job for many years. There's a size for every need. If my needs change, my Quonsets can be *adapted easily* to new uses."

There's a Quonset dealer near you. He's specially trained to take your building problems off your shoulders and come up with the perfect solution in a reliable, economical, labor-saving Quonset.

Bud Bridgman's farmstead near Plain City, Ohio, is one more example of how Quonset farm buildings can serve every purpose, regardless of the size or use requirements. (1) Quonset 24′ x 24′ garage and workshop. (2) Quonset 32′ x 36′ combination drying and storage building for 2500 bu. ear corn and 3600 bu. small grain—adaptable to 7000 bu. shelled corn, too. (3) Quonset 24′ x 60′ machinery shelter. (4) Quonset 32′ x 72′ hay storage and calf-feeding building. (5) Quonset 24′ x 48′ beef cattle shelter.

STRAN-STEEL CORPORATION

A unit of

NATIONAL STEEL CORPORATION

56-SS-3A

Send this coupon to your dealer or to . . .
Farm Building Div., Stran-Steel Corp., Ecorse, Detroit 29, Mich.

I want to protect my farmstead from fires. And I am interested in increasing my income while doing less work. Rush me a copy of "Quonset Buildings for Every Farm Use."

Name_____

Address_____

Town & State_____ 1

Farmer's Washington

From page 16

The proposed plan, in short, would (1) pay for underplanting 1956 wheat and cotton, and perhaps corn and rice allotments, and (2) pay you for conservation practices on diverted acres.

Land taken out of allotment crops would go into an *acreage reserve*, not to be cropped or grazed. Payments would be certificates redeemable in cash or kind up to the *net* return you would have gotten from acres you didn't plant.

Land diverted from other crops could go into a *conservation reserve*. The government would pay an annual "fair share", *to average $14 per acre*, of conservation measures such as starting woodlots or grass. This would be an extension of A.C.P. A limit of $5,000 a year to any one farmer would be set.

Corn. No major change in present program is likely. Plan would either (1) pay you for underplanting the allotment, or (2) kill allotments altogether and make price support discretionary—experts say this would mean lower loan rates.

Wheat. Strong objections of feed growers may defeat some or all of these proposals: (1) exempt from controls, wheat used entirely on the farm where produced, (2) permit U.S.D.A. to sell surplus for livestock feed at competitive prices, and (3) take more states out of the strictly-controlled commercial area.

Durum production controls will again be eased—similar to those of last year.

Soybeans and flaxseed. The president promised to increase support levels this year. This does not need legislation.

Milk. Request to spend $75 million more each year for sending surplus to school milk program, a boost of $25 million, will get quick approval.

Limit on support loans. Slim chance. While the plan made no specific recommendation, frequently mentioned limit for any one farmer is $25,000. Critics say this would have the effect of forcing smaller growers to produce for the loan, while the big growers took over the market. If big producers were barred from taking full advantage of support loan, they most likely would have to be freed from full controls. This means they would be free to plant all they could—dump large production on the market.

Livestock. Not much promised here, except swifter government purchases of market gluts.

Rural development. Plea for passage of last year's plan to help low-income farmers may fall on deaf ears. Long-range nature of program makes it politically unattractive now.

Gasoline tax. Refund of 2 cents a gallon federal tax on fuel used on the farm will be approved. Average yearly refund would be about $12.

Credit. More government lending money is proposed—especially for young farmers. May be approved along with easier terms and lower interest.

Research. Request for $20 million more probably will be approved.

"...not a single case of Hog Cholera"

reports **MALCOLM SETTLES**
ROUTE 2, SHELBYVILLE, INDIANA

"The use of *Lederle* ROVAC HOG CHOLERA VACCINE has been a standard on my farm for more than six years and I always insist that ROVAC be used.

"The use of ROVAC came naturally on the strength of my past experience with *Lederle* products and I relied completely on the information in the *Lederle* literature.

"The ease with which we can use ROVAC combined with its dependable action gives me what I want in a disease preventive.

"Last spring I vaccinated 165 pigs, and last fall used it on *all* my stock, then assisted a neighbor in vaccinating his pigs. *In all this we did not have a single case of hog cholera".*

* Full name of product is ROVAC® HOG CHOLERA VACCINE (Modified Live Virus)—Rabbit Origin—Vacuum-Dried, U.S. Pat. No. 2,518,978.

Thousands of farmers like Malcolm Settles use ROVAC regularly and depend on the solid immunity it provides. Available from your veterinarian, druggist or feed dealer. Write for free literature.

ROVAC®
HOG CHOLERA VACCINE* LEDERLE

". . . it's TARGOT® right away !"

Mr. Settles is also a milk producer and he says, "Last fall I had a cow come down with mastitis. I used *Lederle's* TARGOT and within two days the quarter cleared up entirely. Not long ago we were having trouble with our dairy herd...production was down, milking stubborn and we had been down-graded twice. After using TARGOT the trouble cleared up right away, production improved and our bacteria count is down to 3,000 which means we are back on Grade A milk. Now, anytime there is evidence of mastitis it's TARGOT right away."

TARGOT MASTITIS OINTMENT contains four powerful antibiotics—AUREOMYCIN® Chlortetracycline, Neomycin, Dihydrostreptomycin and Penicillin. TARGOT is available from your veterinarian, druggist or feed dealer.

Malcolm Settles is an expert hog farmer who pursues his profession in the most modern and scientific manner. He knows each pig by sight . . . their pens are clean and sanitary. The brooders and farrowing pens resemble a hospital more than swine quarters. Mr. Settles has made a great success of his business, evidence of which is the fact that his sows are consistently in the 20-pig class.

Lederle — LEDERLE LABORATORIES DIVISION | AMERICAN CYANAMID COMPANY | PEARL RIVER, NEW YORK

WHAT EVERY FARMER SHOULD KNOW

about liquid mixed fertilizers

For close row work this rig has fertilizer tank mounted in rear, knives in front. You can buy, rent or make liquid fertilizer rigs.

Now—Complete Liquid Fertilizers: Today, thanks to Monsanto's phosphatic fertilizer solution, you can get *complete* liquid fertilizers—that is, containing nitrogen, phosphorus and potash—from your local liquid fertilizer formulator.

Full Range of Grades Available: Over 100 grades of liquid fertilizers are now formulated in the U.S. and Canada. Such popular grades as 8-24-0, 20-10-0, 15-10-5 and 10-10-10, and many others to suit your needs.

Trouble-Free Handling, Spraying: Because Monsanto phosphatic fertilizer solution balances with other ingredients, you can now buy *neutral* noncorrosive liquid fertilizers. Such fertilizers have no unpleasant or dangerous fumes, feed evenly and freely through your applicators.

Apply Pesticides with Fertilizer: Your local mixer or dealer can advise you on how to economize by applying insecticides and herbicides at the same time you fertilize.

Many Types of Applicators Used: You can choose among gravity or air pressure systems; tractor-mounted or trailer tanks; spray booms or injection shanks on tillage or planter attachments—any of which you can buy, rent or make.

Year-Round Convenience: With liquid fertilizer you can broadcast ahead of plowing, inject with planting and side dress.

Mixers, Dealers Offer Many Aids: Most offer custom application and also rent do-it-yourself equipment. Since their formulating plants are in your community, they are able and willing to advise you on the best ways to use liquid fertilizer.

10 ADVANTAGES

You Get From Liquid Mixed Fertilizers Made With Monsanto Phosphatic Fertilizer Solution

1. Faster; more acres per hour.
2. Save on plant food, time and labor.
3. You can cover a field without help.
4. No bags to lift.
5. Clean work; no dust.
6. Even feeding; no caking or lumping.
7. Easy storage allows discount buying.
8. Equipment costs less.
9. Plant food goes where you want it.
10. Perfect irrigation; nothing to dissolve.

GROW MORE PROFITABLY...

WHERE CREATIVE CHEMISTRY WORKS WONDERS FOR YOU

MONSANTO

Weed Killers • Brush Killers
DDT and Parathion Insecticides
Medo-Green® Silage Preservative
Phosphates (liquid and solid)

LION

Lion Brand Ammonium Nitrate
Sulphate of Ammonia
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Monsanto Chemical Company, Inorganic Chemicals Division, 710-SF-1 N. Twelfth Blvd., St. Louis 1, Mo.

Please send me the name of my nearest liquid fertilizer mixer.

Name .....

Street or RFD ..... *City* ..... *State* .....

Can you prove

You were born?

A birth certificate is essential to keep, according to Miss Elizabeth Wiegand of Michigan State University's home-management and child-development department. You may find a certificate useful in proving your age and citizenship.

You should have certified copies of birth registration of each member of your family.

It may be necessary to show a birth certificate before receiving life insurance benefits or social security benefits. Some older persons have the problem of how to get a birth certificate if it was destroyed, or, they never had one.

Several records may be used as substitute proof. It depends upon which agency is requiring the proof and whether the question is on age or on citizenship. Some records that may serve as substitute proof are: a hospital record of the birth, a report of Census Bureau records, certified copies of church records that attest to baptism or birth, affidavits from the physician or midwife who attended the birth, or from older relatives or friends who can remember the event. Sometimes certified copies of family Bible entries will give the necessary proof in place of a birth certificate. On the basis of these documents the local vital statistics bureau may be willing to issue a birth certificate. You may contact the Clerk of the District Court or a similar official in the county in which you were born or the Bureau of Vital Statistics within the State Department of your native state.

Since it is important to keep your birth certificate, you might check now to see that each member of your family has one. If there is one lacking, it might be wise to take the necessary steps to get one.

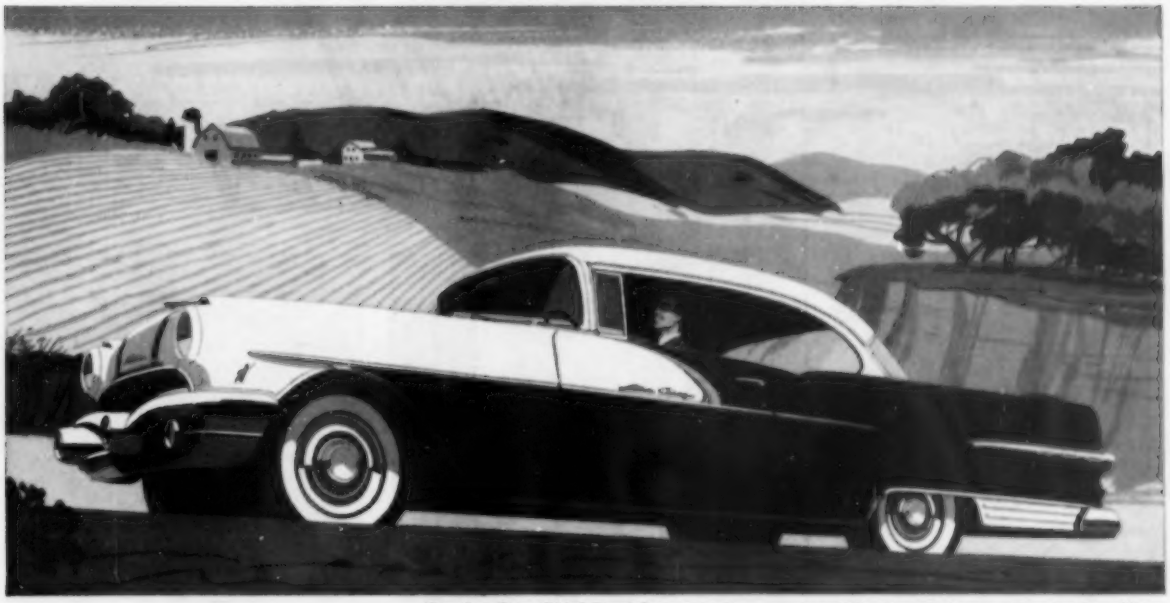
New York action to wipe out

Bang's

The New York State Department of Agriculture and Markets recently announced plans to vaccinate every calf between 4 and 8 months of age in this state as part of its campaign to wipe out brucellosis. Furthermore, last January 1, the agriculture department clamped a rigid state quarantine on cattle which react to a brucellosis test, so that they cannot be transferred from farm to farm.

The department has asked for $614,350 for brucellosis in 1956-57, compared with its current allotment of $487,800.

Meanwhile, the department is seeking permission from the budget division to transfer $75,000 from the department funds for fighting tuberculosis among cattle. With this money, the brucellosis program would not have to wait for the start of the fiscal year, April 1.



Pontiac Star Chief Two-door Catalina . . . proud leader of six new Pontiac Catalinas.

The car says GO . . . and the price won't stop you!

Get set for thrills . . . motoring thrills the like of which you've never known!

For behind the wheel of these fleet-footed beauties, miles just seem to melt away . . . hours dwindle to minutes. It's the tremendous *go* of Pontiac's master-engineered Strato-Streak V-8 that does it. 227 mighty horsepower . . . digging in to take you off on a wonderful, new adventure . . . smoothly, effortlessly, safely.

But this *great go* is just part of the story. There's *big size,* big-car wheelbase, and big-car riding comfort there that you can't find in any car near Pontiac's low price.

Price, you say? That's where Pontiac really shines! You can buy a big, glamorous, go-powered Pontiac 860 for less than you'd pay for *44* models of the low-priced three.

News to you? Not to your Pontiac dealer. Let him give you the full story. Drive a high-styled, high-powered '56 Pontiac and get a great, new driving thrill . . . firsthand.

PONTIAC MOTOR DIVISION OF GENERAL MOTORS CORPORATION

'56 STRATO-STREAK *Pontiac*

Pontiac 870 Two-seat Station Wagon . . . one of four double-duty Pontiac Station Wagons.

Won't SLIP
Won't COME OFF

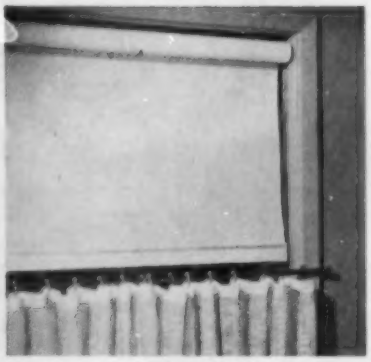
. . . because the cotton is *tight-spun* on the stick . . . to make BUDS especially safe for your baby.

BUDS are the *only* cotton swabs with *all* these advantages:

- Softest, whitest Red Cross Cotton.
- Smooth, splinter-free birch sticks.
- Baby-safe, baby-soft, baby-size.

Johnson & Johnson

WHAT'S NEW IN HOMEMAKING



Window shades and matching drapery of variegated, textured fabric in 6 colors. Shade backs are white. At stores, shades, $10.95.—*Joanna Western Mills, 22nd St. & Jefferson Ave., Chicago, Ill.*

Streamlined teakettle of aluminum with copper-colored cover that never tarnishes. Buy "Wear-Ever Hallite" teakettle at stores, $7.95.—*Aluminum Cooking Utensil Co., Inc., New Kensington, Pa.*

Photographs: Stanley, Hopkins

"Booster" seat with slip-proof rubber bottom fits any chair or use as auto seat. It's 4 inches high, in plaid plastic colors. At stores, $4.98.—*Dennis Mitchell Industries, 4424 Paul St., Frankfort, Pa.*

Personal check file with month dividers, files a year's canceled checks. Follower block keeps checks upright. Gray or black metal, $4, ppd.—*Mayfair Co., 315 N. DesPlaines St., Chicago, Ill.*

Folding desk chair of natural redwood finish for children. Seat, seat back-desk top are laminated plastic covered. To convert to desk or table, child clasps back by lower edge and lifts to swing it up from vertical position to horizontal. As desk, unit stands 22¼ inches high, for 2- to 8-year-olds. Folds away when not in use. $16, express ppd.—*Austin Home Utilities, 901 S. Harlem Ave., Oak Park, Ill.*

Capture the charm of colonial days

Borrow from the past—for the room in your future. Comfort combines with style—durability with details you love. See the Early American hand-turned look of the maple furniture . . . the handcraft texture of the deep pile carpet . . . the wallpaper design with a motif from a lovely colonial garden. America's finest heritage is reflected here—brought up to date for the homemakers of today by Kling Factories, Mayville, N. Y., Imperial Paper & Color Corp., Glens Falls, N.Y., Mohawk Carpet Mills, Inc., Amsterdam, N.Y.

IMPERIAL *Washable* WALLPAPERS

Here's just one of the exquisite ways Imperial Washable Wallpapers bring charm and warmth to a room so personally yours. And there are so many colorful patterns you can select for *any* period or decor. Economical too, because they're guaranteed washable . . . they'll stay fresh-looking for years! You owe it to yourself and your home to see the new 1956 patterns at your Imperial dealer today.

Pattern illustrated is Garden Plan #8371

This is Mohawk Trendtex . . . the first *really* new weave in a hundred years. Its random loop texture will add spaciousness to every room . . . its dense all-wool pile will take years and years of wear. And for as little as $10 a month you can enjoy your Trendtex *now*—in any of the 16 fabulous colors. See your Mohawk Dealer today for *Home means more with Carpet on the floor.*

KLING® BEDROOM FURNITURE

The OLDE ORCHARDE Group is rich *solid* hard maple finished in sunny Autumn Tan. Send 25¢ for 24 page 4-color booklet "Your Bedroom and You" describing Olde Orchard and other Kling groups, and containing a wealth of information on color selection and bedroom decoration and arrangement. Kling Factories, Dept. C-3, Mayville, N. Y.

Never before in farming history could one tractor pay an owner as many ways as this...

FOLD OUT FOR TRACTOR FACTS

Powering this MM Foragor is one job where the 445's straight-through power take-off and Ampli-Torc Drive really prove themselves. You vary ground-speed as the stand varies, without shifting or de-clutching, without touching the throttle, without changing machine speed.

New look... New power... All new... All the way!

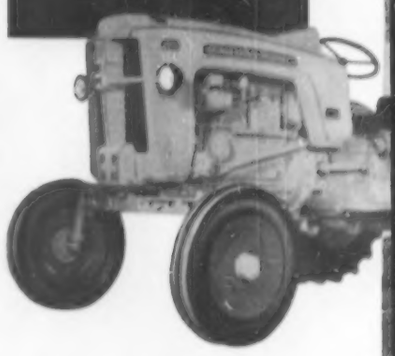
445 UNIVERSAL

Single wheel, dual wheel or extendable front ends.

Write for facts or see your MM dealer NOW!

445 UTILITY

Adjustable front and rear tread.



When you own an MM 445 you're out ahead to stay!

NEW MINNEAPOLIS MOLINE MODERN MACHINERY *POWERlined* 445

If making money at farming is *your* business—you owe it to yourself to drive this out-ahead tractor! For this all-new *POWERlined* 445 is the one tractor built to pay you better on every job . . . the way you farm *today!*

Here's high-compression power in the 40 HP class, with Ampli-Torc Drive to work that power to the money-making limit. Here's 3-way hydraulic power . . . for steering . . . for hitching . . . for control of pull-behind or mounted machines. Here's power-adjusted rear wheel tread . . . independent power take-off.

Below are just a few of the many, many new advantages that make the *POWERlined* 445 most advanced in the 40 HP class. But only your MM Dealer can show you all the ways this new MM tractor will pay you—in *bigger* work-capacity . . . in *lower* operating costs . . . in *speedier, easier* handling.

Pick the model best for you . . . the row-crop Universal, or the all-purpose short-wheelbase Utility. Then ask your MM Dealer to let you be one of the first to drive the *POWERlined* 445 . . . for the tractor discovery of your life!

MINNEAPOLIS-MOLINE

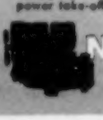
MINNEAPOLIS 1, MINNESOTA

OUT-AHEAD . . . WITH THE NEWEST IN TRACTOR ADVANTAGES!

NEW

High-compression, valve-in-head engines factory equipped for gasoline, diesel fuel, LP gas or tractor fuel.

NEW



Exclusive MM Ampli-Torc Drive gives you 10 forward and 2 reverse speeds. You boost power or speed on the go without shifting gears, without changing engine or power take-off speeds

NEW

Hydraulic power steering* steers with a touch, holds the course you set automatically, even on hill-sides.

NEW

Big-capacity hydraulic 3-point hitch offers quick hook-ups, new ampli-trac lugging—more pulling power when you need it, control for constant depth or constant draft.

NEW

Dynamic new design brings you the *POWERlined* look in farming!

NEW

Power-adjustable rear wheel tread.*

*Optional equipment

NEW

Choice of three interchangeable front end types (in Universal model).

NEW

A completely new line of MM 3-point and front-mounted implements designed especially for the *POWERlined* 445.

Powering this MM Forager is one job where the 445's straight-through power take-off and Ampli-Torc Drive really prove themselves. You vary ground-speed as the stand varies, without shifting or de-clutching, without touching the throttle, without changing machine speed.

NEW MM POWERLINED 445

MINNEAPOLIS MOLINE · MODERN MACHINERY

If making money at farming is *your* business—you owe it to yourself to drive this out-ahead tractor! For this all-new *POWERlined* 445 is the one tractor built to pay you better on every job . . . the way you farm *today!*

Here's high-compression power in the 40 HP class, with Ampli-Torc Drive to work that power to the money-making limit. Here's 3-way hydraulic power . . . for steering . . . for hitching . . . for control of pull-behind or mounted machines. Here's power-adjusted rear wheel tread . . . independent power take-off.

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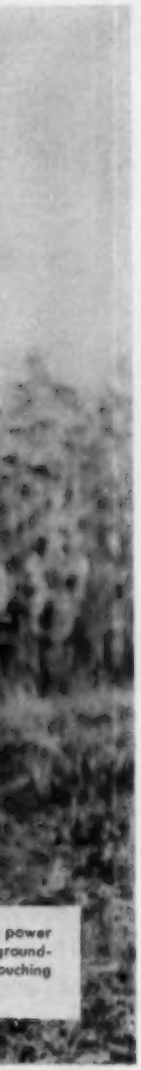

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New look... New power... All new... All the way!

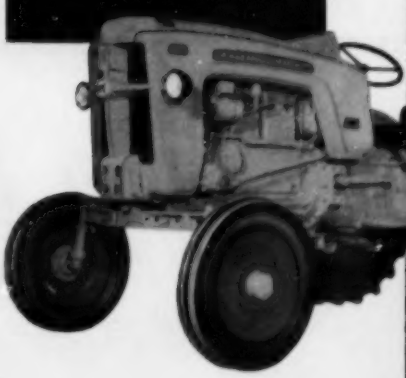
445
UNIVERSAL
Single wheel, dual wheel or extendable front ends.

Front-mounted cultivator with fertilizer attachments, and rear-mounted spring-teeth to mulch wheel tracks—the 445 Universal handles both with smooth, sure Uni-Matic hydraulic power for finger-tip control.

The 445's big-capacity hydraulic hitch handles this MM tandem disc harrow with ease. Uni-Matic hitch gives you a new high in 3 point control. Look how it handles a really big harrow. At row ends, in tight corners, or in transport, the hitch lifts the big-capacity harrow high and clear.

Write for facts or call your MM dealer now!

445
UTILITY
Adjustable front and rear tread.



POWERlining means an eager reserve of high-compression power, with MM's exclusive Ampli-Torc Drive to muscle through tough spots. Here the low-silhouette, short-wheelbase Utility Model 445 hums along with a 3-bottom MM Hi-Klearance plow.

When you own an MM 445 you're out ahead to stay!

This new MM 3-point Rotary Hoe is another of the new MM implements designed especially for the 445 tractors. The Uni-Matic hitch controls the hoe for field penetration and transport. A remote Uni-Matic cylinder lifts end sections for gate clearance.

TEST-TUBE FEEDS

What they are and how to use them

Confused with all the drugs and chemicals needed in today's livestock rations? This roundup will help you get them straight. But as good as they are, they're no substitute for good feeding, management

Diethylstilbestrol

What it is: Diethylstilbestrol, commonly referred to as stilbestrol, is a synthetic compound that has the same effect in an animal as the naturally occurring female sex hormones, the estrogens. The estrogens are produced by the ovaries and are responsible for the estrus or "heat" in all farm animals. The synthetic form of the hormone, stilbestrol, can be produced at a very low cost.

How it is used: The big news about stilbestrol has come in the past couple of years. It has become a common feedlot term to most cattlemen who are using it to increase the rate of gain and efficiency of feed utilization. The most satisfactory results have been obtained when fed at the rate of 10 milligrams per head per day.

Veterinarians frequently use stilbestrol to induce heat in farm animals, and as a treatment for retained placentas. It has also been used by poultrymen to produce "artificial capons."

Unidentified growth factors

What they are: One or more unidentified growth factors are present in fermentation products, fish solubles, whey, and distiller solubles. As yet, researchers have been unable to isolate in pure form and identify these factors. A portion of the growth response is due to some mineral constituents; the remainder is due to some organic substance.

How they are used: These unidentified growth factors boost the rate of gain when fed to hogs, chickens, and turkeys. Practical rations should include some source of these factors.

Urea

What it is: Urea is a relatively simple compound excreted in the urine as a result of the breakdown and utilization of proteins in the animal body. It is now manufactured synthetically on a large scale from the nitrogen of the air.

How it is used: Urea can be used to replace some of the protein in rations of ruminant animals such as the cow, sheep, goat. The microorganisms in the rumen convert urea into proteins.

Urea is best utilized when it is included in a ration containing some source of starch. Some sulfur must also be present in the diet.

The gonadotropins

What they are: The gonadotropic hormones are produced by the pituitary gland. They regulate the activities of the gonads (ovaries in females, testes in males). They can be extracted from pituitary glands of killed animals, blood serum of pregnant mares, or urine of pregnant women.

How they are used: These hormones are used to treat various kinds of sterility in livestock. The gonadotropin from human urine, called chorionic gonadotropin, is effective in causing the follicles of the ovary to rupture, releasing the ova so that they may be fertilized. Its best use is treatment of cystic ovaries.

The gonadotropins from pregnant mare serum (P.M.S.) is used to induce heat in females, and to cause increased production of male sperm.

Arsenicals

What they are: The compounds of arsenic are good examples of substances that can be either useful or harmful, depending on how they are used. Arsenic is widely used in rat poisons, insecticides, paints.

How they are used: Recently, it has been found that the addition of a small amount of arsonic acid (3 nitro-4 hydro-xyphenal-arsonic acid) to the diet of poultry and weanling pigs stimulates growth. Slight increases in rate of gain in calves have also been noted when low levels of arsonic acid were fed.

Oxytocin

What it is: Most dairymen know this hormone as the one responsible for letdown of milk. Oxytocin is normally released from the pituitary gland as a result of numerous stimuli usually associated with milking, such as washing the udder or rattling of milk pails.

How it is used: Some cows fail to respond to the usual stimuli, but will let down the milk promptly in response to the injection of oxytocin. After a few injections, some but not all of these cows will respond to normal stimuli and let down milk in the usual manner.

Antibiotics

What they are: Antibiotics are drugs (the best known are penicillin, aureomycin, terramycin, streptomycin, and bacitracin) which are derived from molds and bacteria. They either destroy or block the growth of certain other organisms. Hence, the name anti (against) and biotic (life).

How they are used: It would be difficult to summarize all the work that has been done with antibiotics in the animal field. Antibiotics have found their place in almost all livestock rations as growth boosters.

A number of livestock and poultry diseases are now being prevented and treated with high levels of antibiotics in animal feeds.

Numerous infections in all classes of livestock respond to antibiotic treatments. For example, some of the antibiotics are being used to help control mastitis in dairy cattle and infectious organisms in semen used for artificial breeding.

Only recently, meat preservation has been added to the long list of uses for antibiotics.

Cortisone

What it is: This hormone is one of several produced by two small glands, the adrenals, located near the kidneys. Cortisone is now prepared synthetically, but its cost is still relatively high for veterinary use. As production increases, we may expect lower costs.

How it is used: Cortisone has found several uses in animal production, most important of which is in the treatment of ketosis, or acetonemia in cattle. It has also been used as an effective treatment for pregnancy disease of ewes, a disease similar to ketosis in cattle. Cortisone has been found to relieve lameness caused by an arthritic condition in cattle, sheep, swine.

Sodium proprionate

What it is: It is a compound that has also proved effective as a treatment for ketosis in dairy cattle.

How it is used: Proprionic acid is normally produced in the rumen of cattle, sheep, and goats as a result of fermentation processes. Cows which develop ketosis have been found to have less than the normal amount of proprionic acid in the rumen. Administration of proprionic acid (as sodium proprionate) at the rate of ½ pound daily has been found to be effective.

Recently, addition of ¼ pound sodium proprionate to the grain ration during a 6-week period after calving has reduced the incidence of ketosis.

Amino acids

What they are: Proteins are composed of various amino acids. The feeding value of nonruminants' rations, such as the pig and chicken, is influenced by the kinds, amounts, and availability of the amino acids the ration contains. Ruminants are less fussy about the source of protein, since they can synthesize some of the amino acids in the rumen.

How they are used: Until recently it has been cheaper to formulate rations meeting all the amino acid requirements by including protein concentrates from several different sources. However, some of these amino acids, such as methionine, lysine, and tryptophan, can now be commercially produced rather cheaply.

The day may not be far distant when some rations will be supplemented by adding needed amino acids.

More test-tube feeds on page 172

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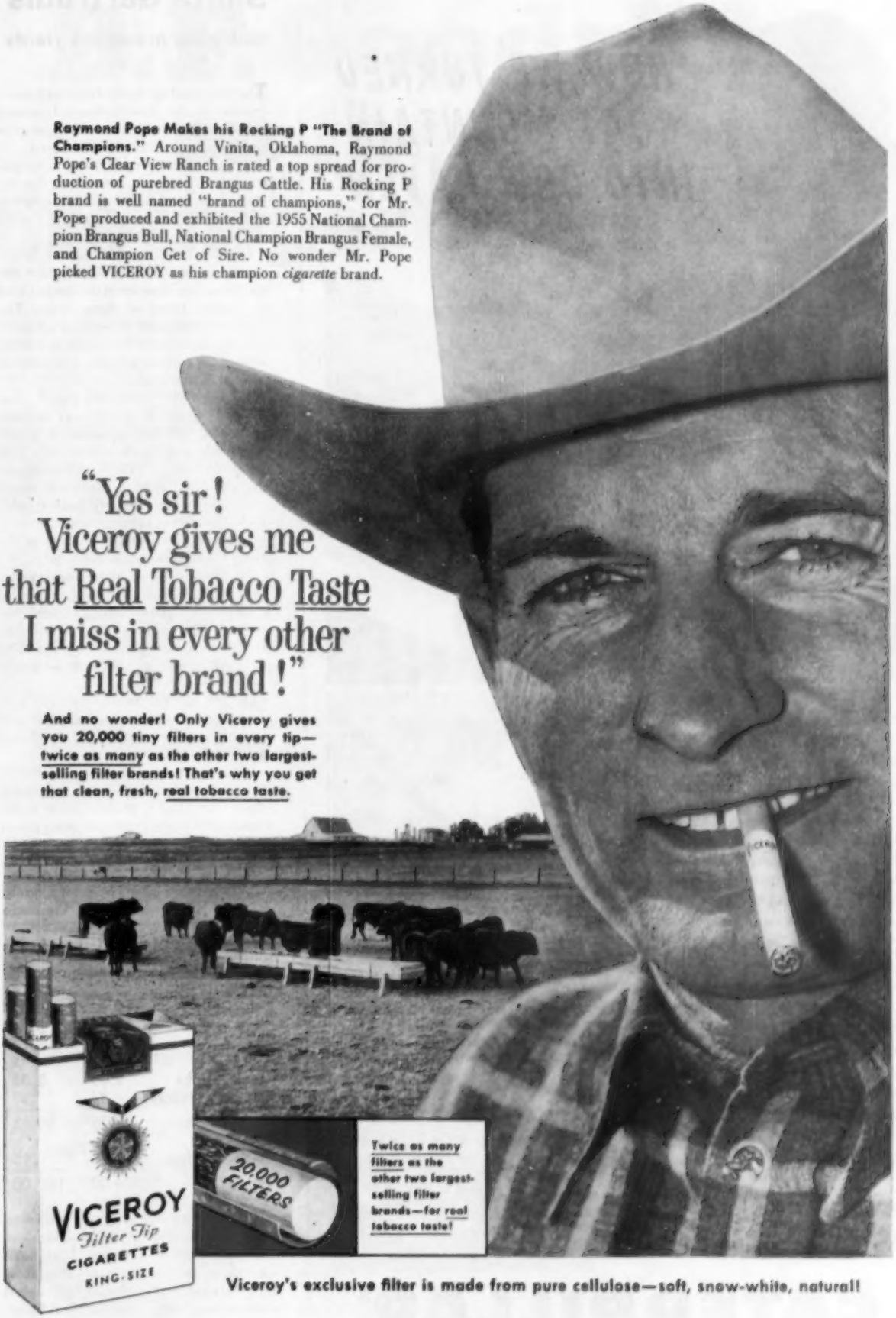
Raymond Pope Makes his Rocking P "The Brand of Champions." Around Vinita, Oklahoma, Raymond Pope's Clear View Ranch is rated a top spread for production of purebred Brangus Cattle. His Rocking P brand is well named "brand of champions," for Mr. Pope produced and exhibited the 1955 National Champion Brangus Bull, National Champion Brangus Female, and Champion Get of Sire. No wonder Mr. Pope picked VICEROY as his champion *cigarette* brand.
"Yes sir! Viceroy gives me that Real Tobacco Taste I miss in every other filter brand!"
And no wonder! Only Viceroy gives you 20,000 tiny filters in every tip—twice as many as the other two largest-selling filter brands! That's why you get that clean, fresh, real tobacco taste.

Twice as many filters as the other two largest-selling filter brands—for real tobacco taste!
Viceroy's exclusive filter is made from pure cellulose—soft, snow-white, natural!

Orville Austin, Mgr., Dawn Hill Farms, Siloam Springs, Ark., tells

"HOW WE TURNED GOAT MOUNTAIN INTO COW HAVEN"

"We had a couple of hundred of acres of land that were very nearly inaccessible, even for livestock. Now, with the CAT D2 Tractor, we've built about 3 miles of access roads and cattle trails. We've developed springs for livestock water, cleared, leveled and drained land for range or crops. We've Cat Tool Bar chiseled several hundred acres, and found that lespedeza on this land stood the drought better. With the D2 we can go places and do things no wheel tractor can."*

D2 pushing over 8" tree (above) and chiseling (below). Cat Tool Bars feature exclusive Cat "Swing-Around" design . . . swing draft members forward to attach front-mounted 'dozer, or to rear for Cat cultivators, subsoilers, etc. Save time . . . save equipment costs . . . make tools work more efficiently. "Swing-Around" Tool Bars are available for D2, D4 or D6 Tractors.

How about you? Take a long look at your farm development plans. If you want to clear land, move dirt, farm more efficiently, accomplish more, cut fuel and labor costs, you need a Cat Diesel Tractor! See your Caterpillar Dealer for full details.

FREE BOOKLET: *See graphic comparisons between wheel tractors and Cat crawler Tractors—write for "Tires or Tracks". . . Address: Caterpillar Tractor Co., Dept. SF36, Peoria, Ill.*

CATERPILLAR TRACTOR CO.
Peoria, Ill., U.S.A.

CATERPILLAR*

*Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.

Santa Gertrudis

look good in carcass yields

The first load of Santa Gertrudis steers entered in the International Livestock Exposition showed that excellent progress has been made with the new breed.

Armour and Company, which slaughtered the 15 animals, announced that the yield of meat per pound of live weight was high. Half of the steers reached Choice grade.

Cutting tests revealed slightly larger rounds and chucks as well as lighter ribs and loins than those from the control load of another breed of show cattle. The Santa Gertrudis also showed a good white covering of fat over the round and other parts of the carcass, and also a reasonable amount of marbling.

A "blindfold" taste-test panel, consisting of livestock people and Armour beef men, sampled portions of sirloin strip steaks and rib roasts. One set of cuts was taken from a Santa Gertrudis carcass and the other from a carcass of equal grade and weight obtained from regular stock. Opinion of the test panel members was equally divided on desirability of the flavor of both the steaks and ribs.

The steaks and rib roasts from regular stock were voted slightly more tender by a majority of panel members, and the majority also thought that the color of the Santa Gertrudis was not quite so good. All agreed that the Santa Gertrudis was very acceptable.

On the rail the Santa Gertrudis carcasses had a dressing percentage of 62.3 percent. Seven were graded U. S. Choice and 8 U. S. Good.

Cutting tests were conducted on the 15 Santa Gertrudis and also 15 Shorthorn cattle. The latter were show cattle in the Prime and Choice grades, dressing out at 64.5 percent.

Following are the yields:

	15 Shorthorn	15 Santa Gertrudis
Plates	9.61	8.70
Loins	18.37	17.78
Ribs	9.44	9.08
Chucks (arm)	27.12	28.18
Rounds	19.98	22.09
Briskets	5.04	5.14
Flanks	6.24	5.14
Tallow suet	1.58	1.21
Kidney knobs	2.03	2.06
Hanging tenders	.34	.37
	99.75	99.75
Cutting test loss	.25	.25
	100.00	100.00

The feeding and cutting tests shed some light on the future possibilities of the Santa Gertrudis breed. These cattle have demonstrated repeatedly their ability to thrive on grass under the hot, rugged climatic conditions along the Gulf Coast. More experience is needed in handling them for profitable results in the feedlot.

B.F.Goodrich on-the-farm tire inspection month

LOOK AT THESE FREE SERVICES

Protect yourself from the expense and inconvenience of unnecessary tire failures during the busy days ahead. Take advantage *now* of B. F. Goodrich On-the-Farm Tire Inspection Month!

Any time during the next month your nearby B. F. Goodrich Service Man will come out to your farm to inspect all your tires, regardless of make. His services are absolutely *free*, place you under no obligation. Get ready for spring work now by having your B. F. Goodrich Tire Service Man:

1. **Check all your tires and recommend proper air pressures.** A correctly inflated tire gives you maximum life and efficiency.
2. **Point out tires that may fail during the heavy work season.** Only tires in good condition can stand the strain of rugged work schedules.
3. **Recommend proper liquid weighting for tractor tires.** New B. F. Goodrich portable pump makes liquid weighting an easy, fast job, assures you of full traction when you need it.
4. **Check steel-wheeled equipment to see if savings can be made by changing over to rubber.**
5. **Advise you on possible savings to be made by recapping worn but serviceable tires.**

Highest trade-ins of the year!

See your B. F. Goodrich retailer!

To celebrate On-the-Farm Tire Inspection Month, B. F. Goodrich is offering the highest trade-in allowances of the year on your worn tractor tires! Check with your B. F. Goodrich retailer and find out how much your tires are worth toward the purchase of a set of big, new B. F. Goodrich Power-Grip tractor tires.

Power-Grip tires have bigger shoulders, bigger cleats. No other tire is wider or has more cleats. This means Power-Grip tires take a big bite of the soil, give you maximum traction in forward or reverse. Power-Grip cleats are higher at the shoulders to penetrate deeper, braced at the base to wear longer. The result: these B. F. Goodrich tires give greater drawbar-pull, speed your tractor work.

What better time to talk to your nearby B. F. Goodrich retailer than during On-the-Farm Tire Inspection Month. You'll find your B. F. Goodrich retailer listed under Tires in the Yellow Pages of your phone book. Or mail the coupon.

B.F.Goodrich

THE B. F. GOODRICH CO.
Tire & Equipment Div., Dept. F-559
Akron 18, Ohio

I would like to have a FREE On-the-Farm Inspection made of my tires.

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R. R._____ Town_____

County_____ State_____

NEW!
High with
80 LBS. NET
PRILLED FREE FLOW
Sohigro
UREA FERTILIZER COMPOUND
SOHIGRO UREA
GUARANTEED ANALYSIS
45% Nitrogen
DERIVED FROM UREA
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SOHIO
SOHIO CHEMICAL CO., LIMA, OHIO
SOHIGRO UREA
SOHIO

nitrogen fertilizer deep-feeding action

So packed with grow power one application can feed a 100-bushel corn crop with nitrogen for life

It's new! It's here! A completely available organic fertilizer – Sohigro Urea, now at your dealer. It's packed with all the yield-boosting wallop of 45% nitrogen and Deep-Feeding Action. Leach-resistant. Nourishes a crop the entire growing season with unmatched 3-stage action. Here's how:

SOHIGRO—UREA STAGE: moves to growth zone fast

Free-flowing, prilled Sohigro Urea dissolves fast, even in low-moisture soil or dew. Moves quickly into soil. Won't "fix" on surface, away from hungry roots. Greater penetration means deeper-feeding, healthier roots . . . built-in resistance to drouth.

"Soil rumen" bacteria thrive on urea, multiply fast to quickly convert organic matter to humus.

SOHIGRO—AMMONIUM STAGE: resists leaching

Soil particles "bank" ammonium nitrogen. Research has shown 20 to 140 lbs. nitrogen per acre converted to ammonia within an hour after urea fertilizer application. Soil particles hold it — guard it against leaching loss. "Pay it out" as usable ammonia to hungry crops all season long. Result: higher yields in drouth years.

SOHIGRO—NITRATE STAGE: quick-acting grow power

Throughout the growing season, friendly bacteria convert ammonia to nitrate nitrogen as needed. This action gives your crops two forms of available nitrogen for a fast burst of grow power during high-demand growth periods.

This important 1-2-3 Sohigro grow power—plus unique urea benefits — adds up to Deep-Feeding Action . . . the NEW way to boost your yields and income; cut fertilizer and labor costs.

10 yield-boosting, money-saving benefits

1. **Easy to use** — Apply Sohigro any time, with any equipment . . . with ground, aerial, irrigation or spray fertilizing equipment.
2. **Saves time and labor** — Fewer bags per acre . . . fewer stops.
3. **More concentrated grow power** — Guaranteed 45% nitrogen . . . 36 lbs. (N) in every 80-lb. bag.
4. **Quick-acting, long-lasting** — Dissolves fast, stabilizes quickly in growth zone. Feeds crop evenly all season long. Best during drouth periods.
5. **Leach-resistant** — Within hours, Sohigro Urea converts to leach-resistant ammonium nitrogen.
6. **Free-flowing** — Prilling keeps Sohigro free-flowing, non-clogging.
7. **Cuts fertilizer burn** — Lowest salt index rating of any commercial type nitrogen.
8. **Easy on equipment** — Less corrosive —no free acids present.
9. **Builds up soils** — Gentle-acting Sohigro helps friendly soil bacteria multiply fast to speed rotting of crop trash . . . build up humus.
10. **Safe to use and store** — Non-flammable . . . non-explosive . . . non-irritating to the skin.

Ask your fertilizer dealer now about your spring requirements of high-nitrogen Sohigro Urea fertilizer. If he doesn't have it in stock, write:

SOHIO CHEMICAL COMPANY

FT. AMANDA RD., LIMA, OHIO

What's New in Colgate Dental Cream that's MISSING-MISSING-MISSING in every other leading toothpaste?

It's GARDOL—To Give Up To 7 Times Longer Protection Against Tooth Decay ...With Just One Brushing!

GARDOL Makes This Amazing Difference!

MINUTES AFTER BRUSHING WITH ANY TOOTHPASTE

DECAY-CAUSING BACTERIA RETURN TO ATTACK YOUR TEETH!

12 HOURS AFTER ONE COLGATE BRUSHING GARDOL IS

STILL FIGHTING THE BACTERIA THAT CAUSE DECAY!

No other leading toothpaste can give the 12-hour protection against decay you get with Colgate's with just one brushing!

Any toothpaste can destroy decay- and odor-causing bacteria. But new bacteria return in minutes, to form acids that cause decay. Colgate's, unlike any other leading toothpaste,* *keeps on* fighting decay 12 hours or more!

So, morning brushings with Colgate's help protect all day; evening brushings all night. Gardol in Colgate's forms an invisible, protective shield around teeth that lasts 12 hours *with just one brushing*. Ask your dentist how often to brush your teeth. Encourage your children to brush after meals. And *at all times*, get Gardol protection in Colgate's!

*THE TOP THREE BRANDS AFTER COLGATE'S.

Cleans Your Breath While It Guards Your Teeth

LATEST IN FOODS

Here's a glimpse of new things to come in the food line as well as a look at some already here

In a twinkling of an eye you can quickly bake a cherry pie—or apple, raisin, blueberry, or French apple if you have the new combination package of pie crust and filling. In one tall package, comes in two cans. Crust in one and filling in adjoining can. Makes one 9-inch pie.

A new hot-roll mix has just been put on the market. Box contains directions for making both plain and fancy rolls, coffee breads, and other good things in the yeast-bread line.

You may eventually see eggs without shells at the grocers. Cornell University has been working on this project by which eggs are packed in separate plastic packages and sealed. Eggs can be poached or hard-cooked in these individual packets, but for other uses they must be removed from the casing.

Two of the newest mixes to be featured are one for cream puffs and another for popovers. Only need to add liquid and eggs to these mixes. From one package of cream-puff mix you get 20 medium-size cream puffs. One box of the popover mix makes 1 dozen popovers.

The new pliable wrap used on a variety of meats does double duty because the meat can be cooked in the wrapper. Used only commercially at present for such as turkey, weiners, tongue, and all cuts of meat—fresh or processed.

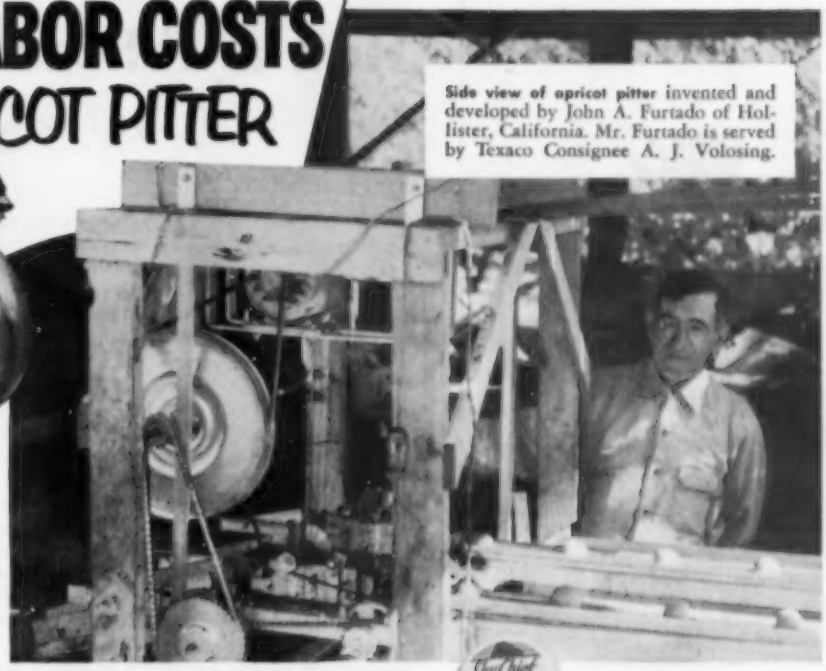
The latest development in food for the armed forces is liquid fruits, meats, and vegetable combinations. These can be used while men have oxygen masks on. Next step is to develop semisolid foods that will squeeze out of a tube.

Something different in the line of cool, refreshing beverages is a frozen concentrate that is flavored with lemon and lime. Kiddies and adults, too, will go for another frozen concentrate, that oldtime circus favorite, pink lemonade.

Four new molded salads are now in many stores. Choose from cranberry, fruit cocktail, pineapple, and perfection salads. These gelatin salads can be stored unopened in refrigerator for 3 months.

Another group of instant frostings is now available in these delicious flavors: Peanut Creme, Chocolate Fudge, and Chocolate Malt. Each box contains enough frosting to cover a 2-layer cake.

Fruit Grower HALVES LABOR COSTS with APRICOT PITTER



Side view of apricot pitter invented and developed by John A. Furtado of Hollister, California. Mr. Furtado is served by Texaco Consignee A. J. Volosing.

JOHN A. FURTADO grows apricots, pears and prunes on his farm near Hollister, California.

Apricots have to be sliced in halves, pitted and dried. Cutting and pitting was done by hand involving an expensive labor problem at harvest time.

Mr. Furtado had an idea that this job could be done by machine, and set out to invent one. After five years of experimentation and development, he succeeded.

With the machine illustrated, he cuts and pits two boxes (eighty pounds) of apricots in two and one-half minutes at a cost of about fifteen cents a box. The cost by hand labor was thirty cents. "The machine works equally well with peaches," he says.

Mr. Furtado, like keen farmers and ranchers from coast to coast, has found *it pays to farm with Texaco products.*

"This Le Roi engine has been running fifteen hours a day for eight years without needing an overhaul, thanks to Havoline Motor Oil," says G. D. Humphres *(right)*, manager of the H. Rouw Co.'s 1,475-acre farm near Carrizo Springs, Texas. At left is Melvin Mannering, farm service man for Texaco Consignee W. H. Dullnig.

Dependable farm service—that's the kind farmers receive from Texaco Distributors and Consignees from coast to coast. Distributor V. W. Smith *(right)* takes an order for Fire Chief, the gasoline with superior *"Fire-Power"* for low-cost operation, from Norman and Everett Albaugh at their farm near Ankeny, Iowa.

In Town or on the Highway

In all 48 states—you will find Texaco Dealers. They have new top octane Sky Chief gasoline, supercharged with Petrox, to give maximum power and reduce engine wear . . . famous Fire Chief at *regular* price, both 100 per cent *Climate-Controlled* . . . Advanced Custom-Made Havoline Motor Oil and Marfak lubricant.

THE TEXAS COMPANY

TEXACO

TUNE IN . . . Metropolitan Opera radio broadcasts every Saturday afternoon. See newspaper for time and station.

ON FARM AND HIGHWAY IT PAYS TO USE TEXACO PRODUCTS

DIVISION OFFICES: Atlanta, Ga.; Boston 16, Mass.; Buffalo 9, N. Y.; Butte, Mont.; Chicago 4, Ill.; Dallas 2, Tex.; Denver 3, Colo.; Houston 2, Tex.; Indianapolis 1, Ind.; Los Angeles 15, Calif.; Minneapolis 3, Minn.; New Orleans 16, La.; New York 17, N. Y.; Norfolk 10, Va.; Seattle 1, Wash.

Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

Like a hired man WITH SIX ARMS

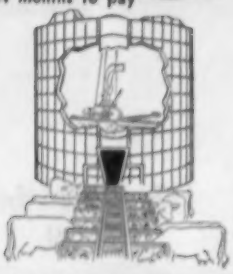
SINCE 1883

STARLINE

HARVARD ILLINOIS

ELECTRIC Labor Savers

Up to 24 months to pay



SILO UNLOADER
One machine handles frozen, hard-packed or loose silage of all kinds. Saves up to 300 hours a year!

CATTLE FEEDER
Automatically and evenly distributes feed or grain along bunks of any practical length or design!

Copyright 1956 Starline, Inc.

BARN CLEANER
Saves 300 to 600 hours of dirty, daily back-breaking labor a year!

Models priced as low as $295.00.

Dependable Barn Equipment Since 1883

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Yes! Send me literature on ☐ Silo Unloader. ☐ Cattle Feeder. ☐ Barn Cleaners. ☐ All three Electric Labor-Savers.

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Check for special literature if student ☐

First in a series on taxsaving through estate planning

How a will can cut taxes

By Jack Miller, tax attorney
Member of Iowa, Nebraska, and District of Columbia Bars

Each year Uncle Sam collects thousands of dollars of estate tax that could have been saved by a little estate planning. You can save estate taxes with a good will—but a poor will can be worse than none at all. This report may help you plan a taxsaving will.

The federal estate tax is a tax on the transfer of property to your heirs when you die. Don't confuse it with the state *inheritance* tax, which is usually so much smaller than the federal tax that it isn't much of a factor in estate planning.

Your estate is allowed a $60,000 exemption, *so only the net value over $60,000 is taxed.* Here's how the net value would be figured: (1) Add up property owned outright at the time of your death, insurance proceeds on policies you owned on your life, gifts made within 3 years before death (unless your executor can show they were not made in contemplation of death), and the *entire* value of jointly owned property (unless your executor can prove the surviving joint tenant paid for it). This is the *gross estate.*

(2) Then deduct funeral and administration expense, debts (including income tax owed on income during the year of your death), charitable bequests, and the "marital deduction." *If the net value isn't over $60,000, there won't be any federal tax.*

The "marital deduction" is allowed for property passing to your wife (or husband if the wife dies first) on your death—such as a bequest under your will, life insurance on a policy you owned, property held by you and your wife as joint tenants, or the property she gets under state law if a will isn't used.

The deduction cannot exceed one-half the net value of your estate computed without the marital deduction.

Marital deduction property must be includible in your gross estate; also in your surviving spouse's estate if she dies before using it up or giving it away. That's why leaving her only the *life use* of property by will does not qualify that property for the marital deduction!

You are primarily concerned with providing for your surviving spouse *and* with the amount of your property which eventually will be available for the children. Therefore, you must look at the tax bite Uncle Sam takes out of *both* your estate and the estate of your spouse.

If you die without a will, your property usually will pass to your spouse as follows: (a) life insurance proceeds according to the insurance contract; (b) jointly held property to the surviving joint tenant according to the law of real property; (c) other property according to the law of descent and distribution of your state. (This ordinarily amounts to one-third going to the surviving spouse.)

If you hold all your property in joint ownership, it won't make any difference *taxwise* that you didn't have a will. However, this generally is not the case—moreover, a later article in this series will show some tax disadvantages where this occurs.

Neglecting to have a will can cost your heirs some money. Here are examples:

1. *Farmer's net estate before marital deduction is $150,000, owned by him in his own name. His wife owns no property. He dies without a will, and under the law of his state she receives one-third ($50,000).* Net estate will be $100,000 ($150,000 minus $50,000 marital deduction). Taxable estate will be $40,000 ($100,000 minus $60,000 exemption). Tax $4,800. No tax on wife's estate since $50,000 she inherits will be offset by her $60,000 exemption.

If he had made a will leaving *half* his property to his wife to get the maximum marital deduction, his net estate would have been only $75,000 ($150,000 minus $75,000 marital deduction). Taxable estate $15,000 ($75,000 minus $60,000 exemption). Tax—$1,050. Tax on wife's estate of $75,000, the same. With a will, then, combined taxes amount to $2,100—compared to $4,800 without a will! (Actually the tax on the wife's estate might be much less or none at all if she uses up $15,000 of her inheritance before she dies.)

2. *Farmer's net estate before the marital deduction amounts to $150,000 ($25,000 in life insurance payable to wife; $50,000 farm in joint tenancy with his wife; and $75,000 other property owned by him in his own name). He dies without a will, and under the law of his state his wife receives one-third of the $75,000 owned by him in his own name, or $25,000, plus the insurance and joint property.*

His net estate will be $75,000 ($150,000 minus marital deduction of $75,000) and after the $60,000 exemption the taxable estate will be $15,000. Tax $1,050. Wife's taxable estate will be $40,000 ($100,000 received from husband minus $60,000 exemption), and the tax will be $4,800. Tax on combined estates $5,850.

[*Turn to page 38*

NEW WAY TO SAVE MORE PIGS

Terramycin right after farrowing helps give pigs protection against scours—starts them off to faster, more profitable gains

Read about New Oil-Can Method

Your hog profits these days depend a lot on saving every pig—making good gainers out of your tail-enders. One of the best ways to save pigs is to give them Terramycin right after they're farrowed.

One method that farmers themselves worked out, and has proved to be one of the best pig savers yet, is to give each new pig a few squirts of a Terramycin and water mixture from a clean new oil can.

They have less trouble from scours. They start right off on the road to fast, healthy, profitable gains for you.

Save Pigs for Pennies

It will mean more profit dollars later on

A little goes a long way.

1 teaspoon treats 1 gallon drinking water for disease prevention; 2 teaspoons per gallon for treatment.

At farrowing time.

For each 4 pigs, mix 1 teaspoon to ¼ cup warm water. Give each pig three squirts (about 1 tablespoon of mixture) from clean, new oil can. Repeat each day for 3-4 days.

Runts, Tail-end pigs.

Give in water or feed for first 2 weeks of life. Use 1 teaspoon per gallon of water or per 5 lbs. of feed. Helps them catch up with their litter mates.

For Calves.

Helps prevent and treat white scours and other types of infectious scours. For prevention, use 1 level teaspoon per gallon of milk, water or milk substitute, or per 2 lbs. of feed for 4 days.

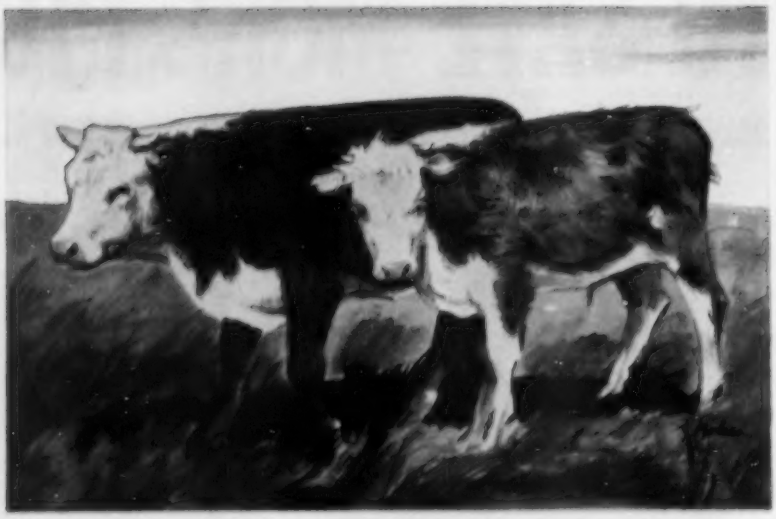
Pfizer

Chas. Pfizer & Co., Inc.
Brooklyn 6, New York
World's largest producer of antibiotics

Terramycin

BRAND OF OXYTETRACYCLINE

ANIMAL FORMULA SOLUBLE POWDER



Painted from an actual photograph taken at Texas Agricultural Experiment Station. Calves were same age and weight when experiment started. Picture was made one year later.

WHAT'S WRONG WITH THE CALF ON THE RIGHT?

The scrubby calf in the picture above is the same age, had the same feed as its healthy brother.

What's the difference? *Worms!* The larger calf was protected against worms by DuPont's Phenothiazine as used in *Cudahy Mineral Worm Blox.*

Worms Are Everywhere

Authorities say that almost every herd in the U.S. is infested with worms — even blue ribbon winners at stock shows! Infestation is particularly high on heavily-grazed land or in crowded feed lots.

But, because stock seldom show acute symptoms and actual death losses are rare, most cattlemen fail to realize they're feeding a bumper crop of worms!

Inexpensive Control

Now, two of the greatest names in industry — DuPont and Cudahy — have combined to provide an easy, inexpensive method of controlling worms.

No extra labor and no expensive medication are required. There's nothing to mix with feed or give to individual animals. Just feed *Cudahy Mineral Worm Blox* or *Mix* to cattle and sheep instead of ordinary minerals.

With Phenothiazine

Cudahy Mineral Worm Blox contain DuPont Phenothiazine at the correct level to *prevent* worm infestation. In addition, *Cudahy Worm Blox* contain all the phosphorus, calcium and other minerals your stock need for fast growth and good health.

Costs 15c per Month

It costs very little to control worms with *Cudahy Worm Blox* or *Mix* — only 15c per head per month more than the very cheapest ordinary mineral, in fact.

Isn't it well worth these few extra pennies to save tons of feed, have healthier stock, put on thriftier gains and a smoother, faster finish?

This Is Danger Period

Spring and summer are the danger periods for worm infestation. With warm weather, pastures and feed lots become literally alive with tiny, microscopic worms, and grazing cattle and sheep pick them up with every bite.

This year, don't be content with so-called "poor-doing," unthrifty stock. Control worms with *Cudahy Worm Blox* or *Worm Mix* and see how thrifty your cattle and sheep can be!

At Your Dealer's

See your local Cudahy dealer for *Cudahy Mineral Worm Blox* in 50-lb. rain-resistant blocks, or *Cudahy Mineral Worm Mix* in 50-lb. paper bags. If you don't know where to buy these products locally, write The Cudahy Packing Co., Omaha, Nebraska, for information.

THE CUDAHY PACKING CO.
Omaha . . . Wichita . . . Los Angeles

CUDAHY *Mineral* WORM BLOX *and* MIX *with Phenothiazine*

Will can cut taxes

From page 36

If he had made a will leaving the $75,000 other property to his wife *for life use only*, remainder to the children, the tax on his estate would still be $1,050; but the wife's taxable estate would amount to only $15,000 (consisting of the $25,000 insurance plus the $50,000 joint property, minus $60,000 deduction), with a tax also of $1,050. Tax on combined estates, $2,100—compared to $5,850 without a will.

Beware of costly wills! A will that doesn't take into account the federal estate-tax law can be worse than none at all. This usually happens where either of two provisions are in the will: (a) husband leaves all his property to his wife *for life*, remainder to the children; or (b) husband leaves all his property to the wife outright. Here is how the government can get a tax windfall from such provisions:

(a) *Farmer's net estate before marital deduction amounts to $180,000, owned by him in his own name. His will leaves all to his wife for life, remainder to children.* Since property left for life use only will *not* qualify for the marital deduction, his taxable estate will be $120,000 ($180,000 minus $60,000 exemption). Tax $26,700!

(b) *Same farmer leaves all his $180,000 estate to his wife outright.* This results in the maximum marital deduction of $90,000, leaving a taxable estate of $30,000 ($90,000 minus $60,000 exemption). Tax $3,000. But the wife ends up with an estate of $177,000 and a tax on it when she dies of $25,800! Tax on combined estates $28,800.

Now, if there had been no will at all, and if the state law gives the surviving spouse one-third of the property, there would be a tax of only $9,500 on the husband's estate and none on the wife's.

Although in the above examples it would have been much less expensive to have no will at all, *the tax could be cut still more* by having a will which leaves one-half to the wife outright and the other half to her for life use, or to the children. *This would result in combined tax of less than $6,000!*

SUCCESSFUL FARMING

"Tomorrow I'm driving the tractor."

Long-term outlook

What's ahead for livestock—beyond 1956? Should you plan on long-range expansion? What will the market be like? These questions are being asked increasingly. To help your thinking on long-range prospects, here are highlights of a new study made by the U.S.D.A.:

During the next 5 years meat animals will become increasingly important in farming. Production will be large, generally, and while prices won't be unusually high, they'll compare favorably with other farm products. Feed supplies will be large. A greater share of farm income will come from meat animals.

Hog production is expected to expand over the next few years—following a probable cutback in late 1956 and 1957. Estimates for the years 1958 through 1960 are for an annual pig crop of around 105 to 108 million. Annual slaughter would be about 90 to 93 million head and per capita supplies about equal to 1945-54 average, 68 pounds.

Prices of hogs would likely be higher than low averages in the fall of 1955, but probably no higher than prices in the fall of 1954. Hog-corn price ratio would be at least equal to the longtime average.

Beef cattle production very likely will be more profitable in the years ahead than in recent past years. Cattle production is expected to drop off during the next 3 years, and then start increasing during 1958. For most of this period, per capita supplies will be less than now.

Smaller supply plus larger demand, due to United States population increases, point to higher cattle price averages between 1958 and 1962 than in the past 3 years. They probably will stay below prices of the 1950-52 boom years and be closer to those of 1946-49.

Sheep and lamb numbers are expected to turn upward within the next 3 years. Decreases in numbers on Western ranges will slow down, while increases in farmland of West and East will likely continue. The report predicts: "Sheep will remain an industry of secondary importance in American agriculture."

Prices of sheep and lambs should average higher than in the last few years, but not go up to their one-time highs.

Whenever you write us about your *Successful Farming* subscription, be sure to enclose an address label clipped from a recent copy. This will help us to find the information you request and send you a prompt reply.

Address your subscription inquiries to the Service Division, *Successful Farming*, Des Moines 3, Iowa.

Why **FOX** *owners seldom lose a hay crop!*

Fox Forage Harvesters are engineered to harvest hay in a hurry. Rugged construction keeps them on the job—prevents time-wasting breakdowns that might lead to sunburned or rain-leached hay—or even the loss of a crop.

Exclusive safety features prevent damage from stones or other hard objects entering knives . . . 116 sq. in. throat opening prevents overloading . . . knives and cutter bar always held true and rigid by heavy one-piece welded steel frame . . . field sharpening is quick and simple.

Fox can harvest ALL your forage crops . . . one man, without tools, can change to mower bar, pick-up or row crop unit in 10 minutes . . . cylinder cutting mechanism insures positive, clean shearing cut . . . you have a selection of 20 lengths of cut—¼" to 5½".

Ask your nearest dealer to show you the Fox . . . to prove how it is designed for many years of trouble-free service.

FREE—New, colorful 1956 Fox Catalog and this profusely illustrated, information-packed idea booklet "NEW WAYS TO MAKE MORE PROFIT FROM FORAGE" . . . filled with practical experiences of men who are today making extra profits from forage crops. Priced at $1.00—this coupon will bring you a copy FREE.

FOX RIVER TRACTOR CO.

The Pioneer of Modern Forage Harvesting

336 N. Rankin St., APPLETON, WISCONSIN

FOX RIVER TRACTOR CO., 336 N. Rankin, Appleton, Wisconsin

Send me, without charge, a copy of "NEW WAYS TO MAKE MORE PROFIT FROM FORAGE" and your new 1956 Fox Forage Harvester Catalog.

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Loves to go... *and looks it!*

The '56 Chevrolet

The Bel Air Sport Sedan is one of two new Chevrolet 4-door hardtops. All 19 new models feature Body by Fisher.

It's got frisky new power . . . V8 or 6 . . . to make the going sweeter and the passing safer. It's agile . . . quick . . . solid and sure on the road.

This is the car that set a new record for the Pikes Peak run. And the car that can take that tough and twisting climb in record time is bound to make *your* driving safer and more pleasant.

Curve ahead? You level through it with a wonderful nailed-to-the-road feeling of stability. Chevrolet's special suspension and springing see to that.

Slow car ahead? You whisk around it and back in line in seconds. Chevrolet's new high-compression power—ranging from the new "Blue-Flame 140" Six up to 205 V8 horsepower—handles that.

Quick stop called for? Nudge those oversize brakes and relax. Chevrolet's exclusive Anti-Dive braking brings you to a smooth, *heads-up* halt.

No doubt about it, this bold beauty was made for the road. Like to try it? Just see your Chevrolet dealer. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

THE HOT ONE'S EVEN HOTTER

SUCCESSFUL FARMING SPECIAL SERVICE FEATURE

Fences and gates

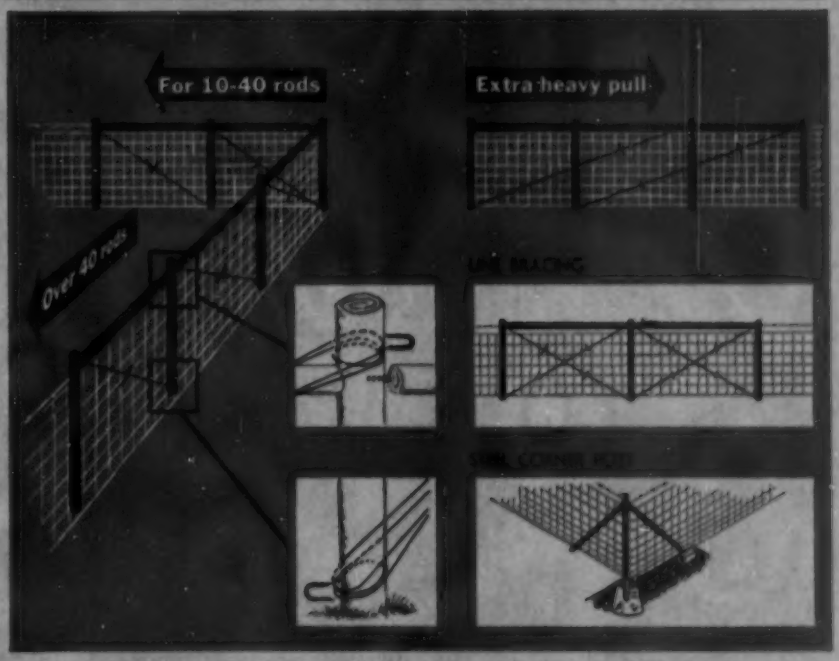
By S. S. DeForest

Next time you go to town—or drive out to the back 40 on *your own farm*—make a special effort to examine critically the fences you see. Note how they're made, the materials they're made of, the condition they're in, and the amount of maintenance they require. You'll be surprised at the variations.

One of the important things to keep in mind in fencing is this: cheap materials and workmanship won't make the most economical fence on a per-year basis. Use wood posts pressure-treated with creosote, pentachlorophenol, or copper napthenate; well-galvanized steel posts; properly built concrete posts; and zinc-coated, copper-coated, or aluminum wire.

Keep this collection of fencing ideas for handy reference.

Permanent Fences

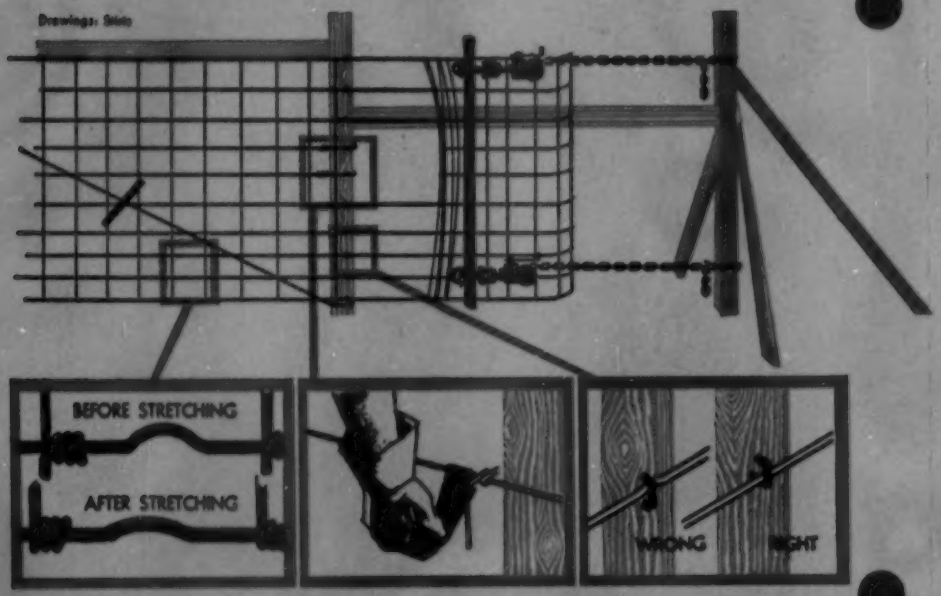


Corner bracing above is capable of holding 3,000-4,500 pounds pull, requires no notching of posts, distributes pull among posts to offset tendency of anchor post to lift. Horizontal brace (at left) should be 4" diameter at corner post, 3½" at others. Extra-strong anchor-brace assembly (upper, right) resists fence loads caused by snow, wind-blown trash. Center drawing, right, is method of line bracing for fences over 40 rods long. Steel anchor post, braces (lower right) are satisfactory if set in concrete. Place concrete around post, brace end

Erecting and stretching woven wire

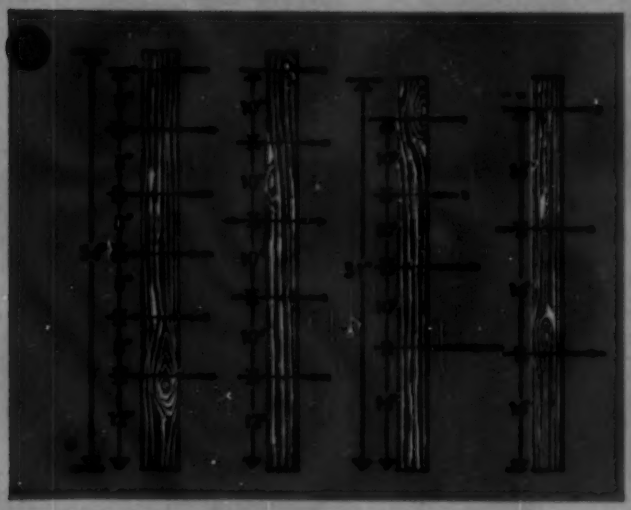
In building woven-wire fence, after it's stretched, start at point farthest from stretcher, attach top wire first, attach bottom wire, then fasten every other wire on remainder of post. Fasten fence to remainder of posts, keeping the top line of fence straight. Standard fence measurements are above

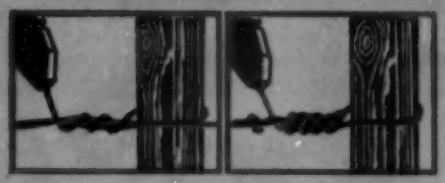
Drawings: Stein



Stretching fence with tractor is not recommended. Instead, use dummy post, as shown, so you can stretch tightly to anchor post. Little slack results when stretcher is removed. Attach ratchets, clamp, and take up slack until tension curves (lower left) are about half removed. Staple wires to anchor post in correct manner shown at lower right. Push stay wires back to leave enough wire to wrap around anchor post, start with center wire, cut and wrap as shown in center drawing (bottom of page). Work your way up and down, cutting and wrapping. Top wire is the last

Erecting and handling barbed-wire fences

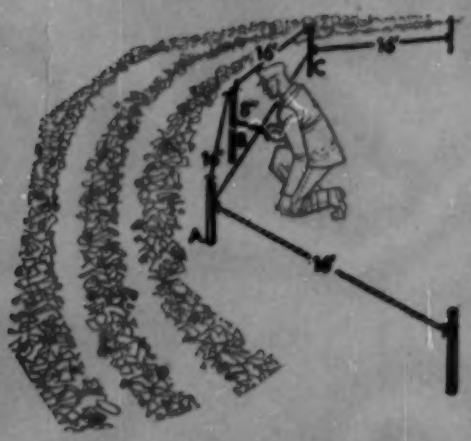


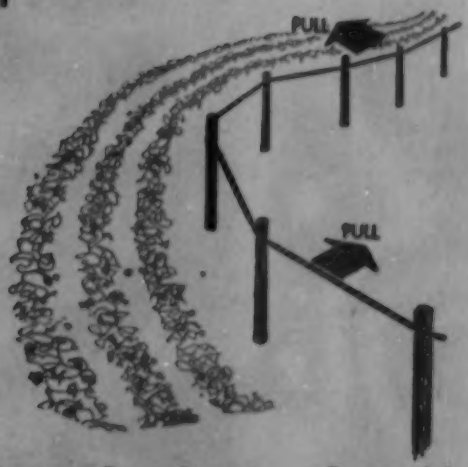


Spacing of barbed wire on posts can be according to those above, left, but are variable depending on your own use. Anchor-brace assembly must be strong because lack of tension curves in barbed wire causes strain to be transferred to anchor.

A 20-degree temperature drop shortens a 40-rod fence 1" so allow for this.

How to build on a contour



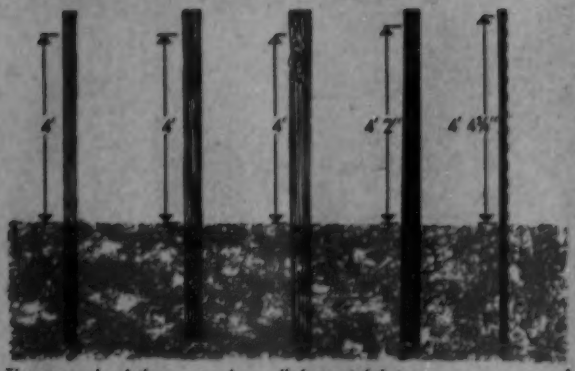


Use stakes, 16' apart, to lay out smooth curve along contour. At points of greatest curvature, measure distance, as shown, then reset stakes, according to table at right for final post spacing.

Tip post tops outward slightly, put fencing on outside of the curve to resist the pull of the fence. Thus, the wire will switch sides of the posts depending on which way the curve bends.

Distance from center stake to string	Recommended post spacing
4" or less	16'
4 to 5"	15'
5 to 6"	14'
6 to 8"	12'
8 to 14"	10'
14 to 20"	8'

Types and sizes of posts to use

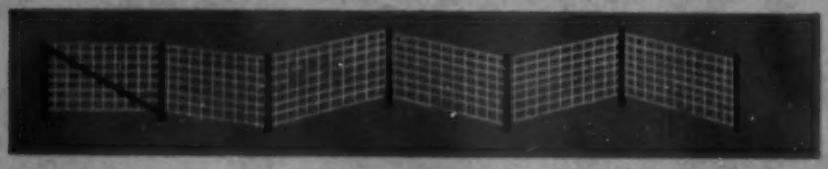


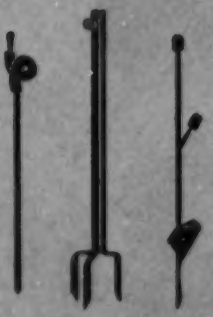
The strength of the posts above (left to right) is 400-700, 800-1,500, 1,400-2,700, 295-310, and 152-160 pounds. Line posts should be 7' long, 2½' in ground. For end, corner posts, angle iron should be 2½"x2½"x¼" pipe, 2½" in diameter. Table at the right is for wooden posts

Post Position	Top Diameter	Length
Corner post	6"	8'
End post	5"	8'
Middle post	4"	8'
End brace post	3½"	8'

Movable fences—types and uses

Movable fences have advantages you should consider in your livestock-management planning. They enable you to discard permanent fences other than those marking the farm boundary, let you set up rotational pasture programs, provide you with easy means of hogging down corn, and are more economical in construction than permanent fences. Don't overlook the possibility that movable fences can be taken with you if you're a renter and have to change farms on occasions

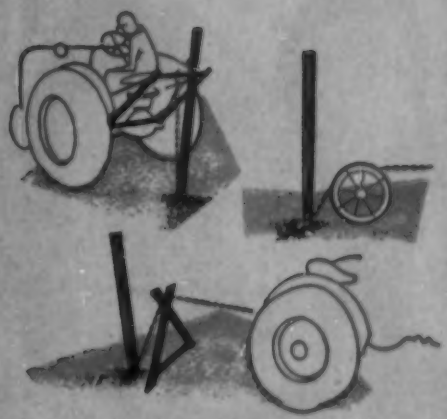




An easy way to stretch woven wire or barbed wire is to set every other post, attach fence temporarily, then set rest of posts on opposite side of fence to take up slack (drawing above). Hog-fence tightener (left) has edges for pressing into soil. Pins hold corner electric-fence post (center). A simple line post is rod, insulated with piece of hose, 3 prongs hold next one. Last one features slotted insulators for wire. When they're turned ¼ turn, wire is held securely in special grooves

Equipment for fence-building

This equipment makes fencing easier, faster. Posthole diggers are versatile. Post driver handles steel or unsharpened 4" wood posts



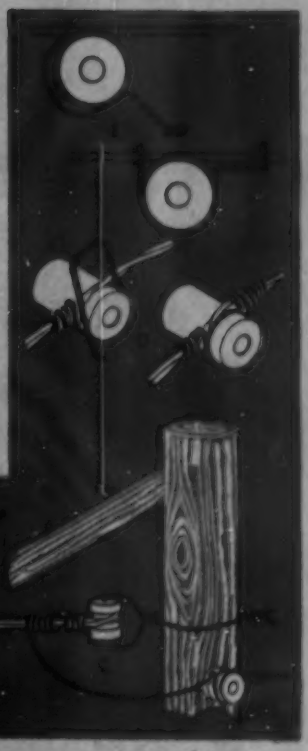
Important thing in removing posts is to lift as nearly straight up as possible. Old planter wheel, special A-frame, hydraulic lift do this

SUCCESSFUL FARMING SPECIAL SERVICE FEATURE

An electric-fence controller must meet the code of one of two checking and approving organizations or you have no guarantee as to its safety. To tell whether a unit has been approved, look on the label of the controller. If it's approved, either or both of these names will be noted: Underwriters' Laboratories, Inc., and Industrial Commission of Wisconsin.

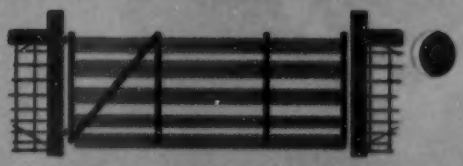
A safe controller allows only .003 to .005 amperes to go through the wire and, in addition, must interrupt the flow of electricity so that it's "on" not more than .1 to .2 second and "off" for at least ¾ second. In doing this, the interrupter allows humans or livestock to "break contact" with the charged wire, should they "freeze" to it when it is touched.

Below and at right are methods for attaching electric-fence wires to insulators. Milker tubes (A) slip over rod post and with opening cut in side, allow passage of wire. Pin drops to hold it. B, C, and D are other helps.

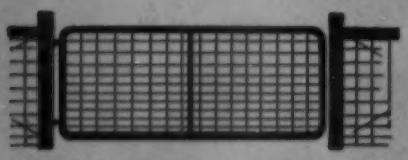


Gates—Put these to work on your farm

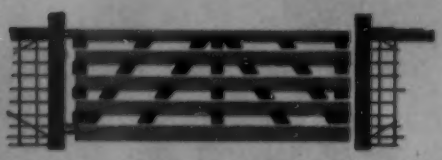
Here is an effective method to make a strong gate. Notice the way the braces form triangles. Triangles are rigid, make your gate rigid, too



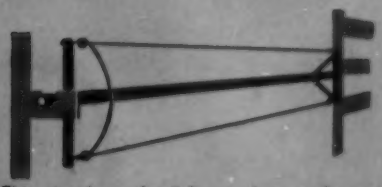
Steel bracing to hold ¾"x6" boards makes a rugged gate. It weighs about same as a wooden gate, same length (left) with ¾"x6" boards



Steel-frame gate with fence filler weighs about same as two above and slightly less for some lengths. Lighter weights help prevent sagging



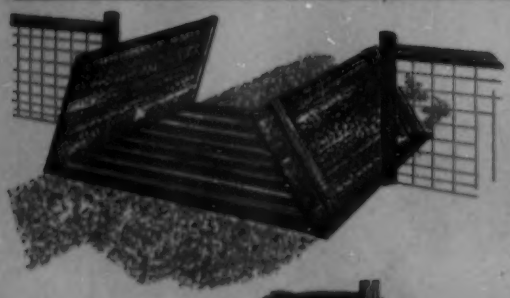
Aluminum gates are lightest in weight. Actual life is unknown but is expected to be long. Damage resistance depends on shape of members



This pipe frame for 2 fence wires can be used for lightweight, convenient electric-fence gate

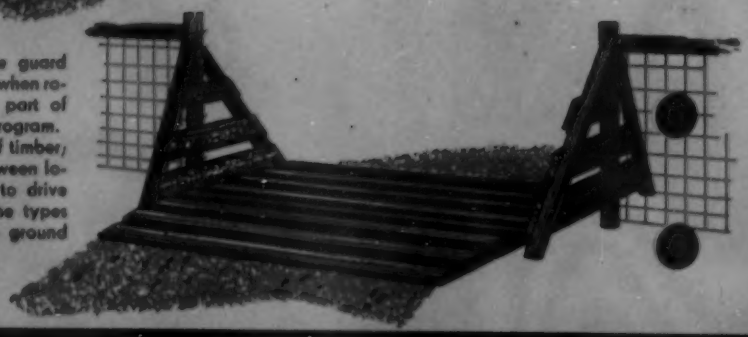
A screen-door spring furnishes tension for this electric-fence gate. Insulated handle hooks loop

Cattle guards—best way to eliminate gates



This permanent-type cattle guard can be made with heavy planks on edge, preferably pressure-treated to preserve them against rotting and insect damage, or 1½"-2½" pipes. Spacing between members should not be over 3".

Panels at edges act as shields when up but fold down when needed, to allow livestock to pass over.



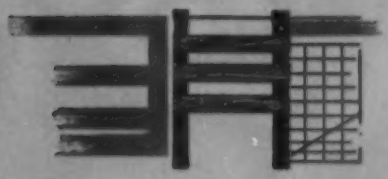
Portable type cattle guard serves good purpose when rotation pastures are part of farm-management program.

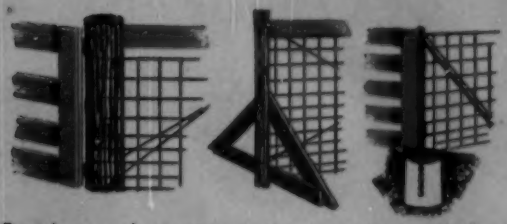
This one is built of timber, can be dragged between locations. It's harder to drive over than one of the types built flush with the ground

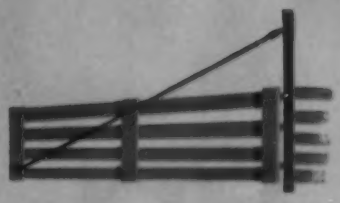
Fence opening for cattle, horses, but but not hogs can be made with 18"-20" high panels. The 2x4 stakes hold them. Space between panels varies between 15"-20".

Large animals can walk over, hogs jump and fall between panels with only one recourse—to walk to either end. Adjust panel height so cow udders will not be injured.

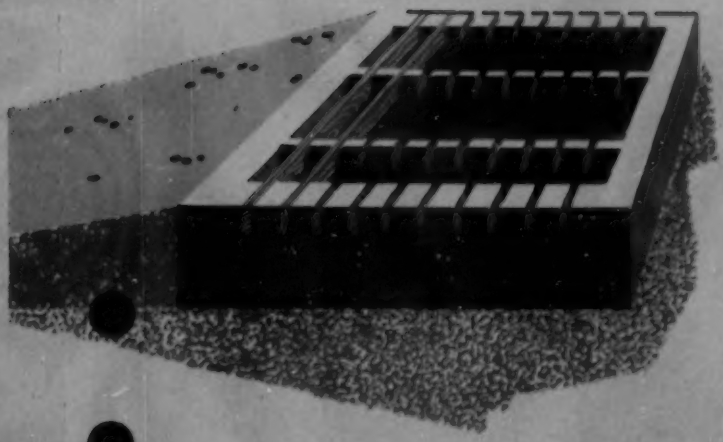
Fence opening for hogs, sheep, other small animals but not cattle, horses, can be made by using the creep idea shown in drawing at right. Gates not rigidly mounted can be raised at one end to provide same effect. Idea can be built into a gate if it is rigidly mounted, or purchased as part of some commercially built gates







Extra heavy or long gates sometimes cause trouble because they sag and are hard to open and close or they weaken the corner post or force it to lean. Extra-large corner posts or supplemental wire brace and knee braces on small posts do the job. Or, if you use a steel post embedded in concrete, it will handle most gates. Extra-long post works well for holding end of hard-to-manage gate



To build this guard, make pit 10' wide, 14' long, 12" deep. Put form in place so top of wall will be 6" above ground. Heavy 6" rails are wrapped with paper before concrete is poured so removal will be easy after concrete sets.

When concrete has set, forms and rails are removed, gentle ramps are built with excavated dirt, rails replaced, and wings built. Total size of guard is 8' wide, 12' long, 1½' deep. Supporting walls to hold rails are 5' apart.

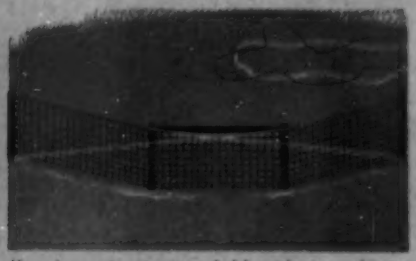
Detail plans are available from Agricultural Engineering Department, University of Missouri, Columbia. Send 25 cents for a set.

Problem spots—How to lick them

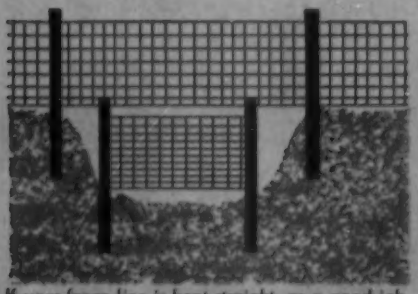
In crossing gullies or streams with fences, it's best not to try to set posts in them. As the drawings show, if the obstacle is 16′ across or less, stretch

the fence straight across. If the stream or gully is more than 16′, use an anchor and brace assembly on each side; stretch each side as a separate unit

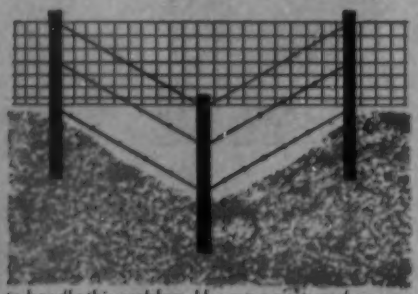
To erect fences in low, wet depressions, the weighted-post arrangement, just above, will help. Use oil drum filled with stones and securely mounted on 2″ pipe



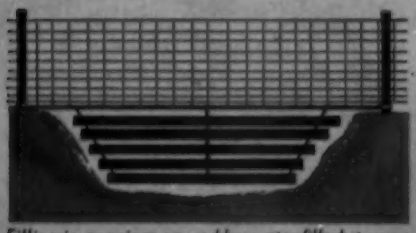
If a depression in your field, with a gentle rise on each side, causes the lowest posts to pull out, use this bracing method to hold them down. You can also weight posts by embedding in concrete



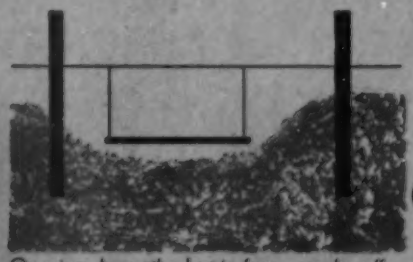
If your fence line is kept straight, as a good job should be, you may end up with a low place or two where animals can get out. Here are 2 ways



to handle this problem. Use more posts and woven wire or 1 post and barbed wire, or a combination



Filling in openings caused by water-filled streams or ditches can be done in several ways. This one is a flood gate made with a series of boards held with No. 9 wire, it swings free for self-cleaning



Openings beneath electric fence can be effectively closed by hanging pipe or rod from the charged fence wire. Height is easily adjusted and wires can be spread sideways to fill spaces

SUCCESSFUL FARMING REPORT

Another new nitrogen fertilizer—

Aqua ammonia

There are important new developments in the nitrogen fertilizer field. Anhydrous ammonia bubbled into water to form aqua ammonia, is one of the hottest. Almost ⅕ of total fertilizer tonnage produced in California last year was aqua ammonia. Midwest distribution, though small, is rising. The simplicity of changing anhydrous ammonia gas into liquid aqua ammonia makes it a good bet for more Cornbelt fertilizer dealers, now well supplied with anhydrous outlets.

Big reasons for this trend are convenience and economy. Aqua ammonia is a liquid—has no pressure at normal temperature, only 11 pounds at 100 degrees. It will not corrode steel—can be stored in inexpensive tanks. Pumps handle all transfer of aqua ammonia; gravity-fed hoses handle field applications.

Most of the aqua ammonia is applied by farmers themselves. It is easy to handle and store, and it can be applied in combination with other field work.

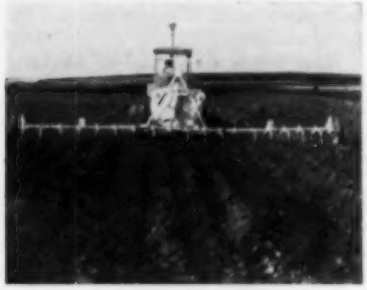
As a liquid, it soaks into the soil, but it must be covered immediately to prevent evaporation. Hence, rigs to apply aqua ammonia while doing other jobs such as discing, plowing, subsoiling, and cultivating are a natural. Tanks, mountings, and shanks can be homemade. Stainless steel metering devices costing $82.50 are the largest single expense. But even these can be homemade. (See February, 1955 *Successful Farming*, page 88.) Depending on the tillage tool, total costs run from $75 to $150. A multiple-chisel plow can be equipped to apply aqua ammonia for $140.

Nurse tanks for delivery of aqua ammonia may be dealer-loaned or farmer-owned, truck- or trailer-mounted. Power take-off pumps or motor-driven pumps transfer the material into application equipment.

Farmers are switching to aqua ammonia to get nitrogen on loose sands, heavy clays, and slick gumbo soils where anhydrous gas wouldn't stay down. They like the way it soaks right in.

Application can be adjusted to fit the crop and its nitrogen requirements. For small grain, shanks are spaced close together and aqua ammonia is applied at shallow depth for immediate availability. Shanks may be spaced wider and inserted deeper into the soil to make nitrogen available later in the growing season.

The tractor shown below is pulling a nurse tank which feeds the shanks on a long tool bar. An auxiliary pump is used to keep lines full and assures even application. The hook-up is slick when covering a large acreage



Tractor-mounted tanks straddle the motor. Gravity carries aqua ammonia through hoses which open behind shanks. Used barrels may be substituted here. This arrangement is used for side-dressing corn while cultivating

Tear out . . . and save

Here is the fourth of the handy-size, 8-page farm service feature now appearing in *Successful Farming*. You can save them for future use in this easy-to-read form. Just tear them out. The punched holes fit any ring binder you may have or buy

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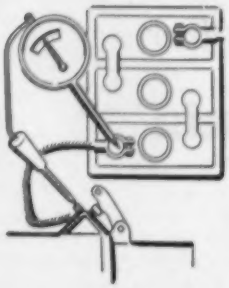
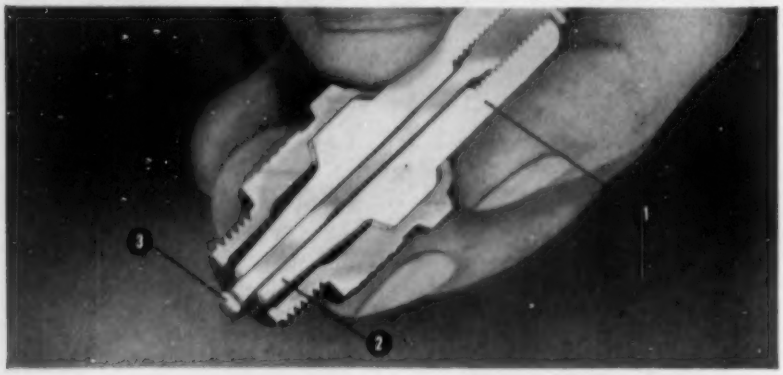
AUTO-LITE TIPS

ON FARM ENGINE MAINTENANCE

HARD STARTING may be caused by a battery cable too small or corroded at the terminals, so test your battery cables for high resistance. Connect a low reading voltmeter to terminals. Next, remove high tension wire from coil so engine will not start. Turn engine over. If reading is above .3 volt, with starter motor operating, it indicates excessive resistance in terminal connections or wire.

Check for loose, dirty or corroded connections. Repeat check with voltmeter leads attached to clamps at ends of wire. If reading is still above .3 volts, replace cable with the Auto-Lite cable specified for your engine.





THE TOUGHER THE JOB THE MORE YOU NEED AUTO-LITE SPARK PLUGS

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Approve Diazinon for

Fly control

Diazinon residual sprays for control of house flies have shown good results for as long as 116 days after application. And this chemical, along with the claims for its effectiveness, have been approved by the U.S.D.A.

Residual application of Diazinon (a trade name) does not result in milk contamination when used in barns, tests show. And as a result, this chemical can now be safely used as dry bait, wettable powder, and as emulsifiable formulations for fly control in dairy barns.

Greatest value of this chemical is that it is effective against those strains of flies which have become resistant to chlorinated insecticides.

From 4 to 8 pounds of 25-percent wettable Diazinon powder mixed in 25 gallons of water will give control up to 8 weeks. Two or three applications will thus give a full season of control.

Two cautions to follow include: (1) This fly killer is not recommended to be used in direct applications to animals, and should not contaminate feed and water; (2) remove animals from the barn while it is being sprayed and keep them out for the next 4 hours.

Crossing gives lambs

Hybrid boost

Hybrid lambs—some of which have been developed at U.S.D.A.'s Agricultural Research Center, Beltsville, Maryland—promise ranchers increased efficiency in the production of meat and wool, the department reports.

Representing 2- and 3-way crosses of different high-quality purebreds, these Beltsville hybrid lambs have far outclassed their parent stock in production and reduced mortality.

These lambs are crosses of purebred Hampshires, Shropshires, Southdowns, and Merinos of strains that have been improved at Beltsville through several years of selective mating and line-breeding. The department points out, however, that commercial growers can produce vigorous hybrid lambs by crossing their own grade flocks with high-quality purebreds of another breed.

Results of the Beltsville tests, showing material improvement in the production and mortality rate of the hybrids compared with purebred lambs from the same foundation strains, cover 2-way crossbreds observed over a 7-year period and 3-way crosses tested for 4 years. Bases of comparison were: (1) the mortality rate of the lambs and (2) the "production index" of each ewe, indicating her producing ability in terms of weaned weight of lambs and weight of yearling fleeces.

Wool benefits

to be felt this summer

"Incentive payments on wool should raise United States producers' total income from this product about 15 percent above returns of last year," says F. W. ImMasche of the U.S.D.A.

The average price of wool in the nation has declined from 49 cents a pound last April to around 40 cents. As a result, some producers say that they are worse off than under the C.C.C. loan program. However, the price they get for their wool in the market is not the full measure of their returns under the new program. They will not have the full story until next summer when the payments are made. Added to what they receive in the market, the payments will bring their total income to about 15 percent more than last year.

Under the new incentive payment program, payment is required to bring United States average farm prices for wool up to the incentive level of 62 cents a pound. Payment will be on a percentage rate. For example, if the national farm price average is 42 cents, a payment of 48 percent of each producer's net sales proceeds will be made in the summer of 1956, ImMasche explains.

While the shorn wool payment program is working smoothly, many problems have arisen in connection with payments on lambs and yearlings marketed with the wool on.

Payments are made on the basis of the animals going to slaughter. A certification is required from the slaughterer or his agent that the lambs were purchased for slaughter and whether or not they had ever been shorn. Otherwise, there would be no way of avoiding duplication in payments on the same lamb with changes in ownership.

A better solution to the pulled wool part of the program is needed. The present thinking is to make payments on all sales of unshorn lambs, regardless of whether for slaughter, feeding, or replacement. "If the new owner shears the lambs, either in the feedlot or as a part of his replacement flock," he said, "we would deduct from his incentive payment on shorn wool the amount of payment due on the lambs as purchased. Likewise, if the new owner sells the lambs with the wool on, we would deduct the same amount from his lamb payment."

give

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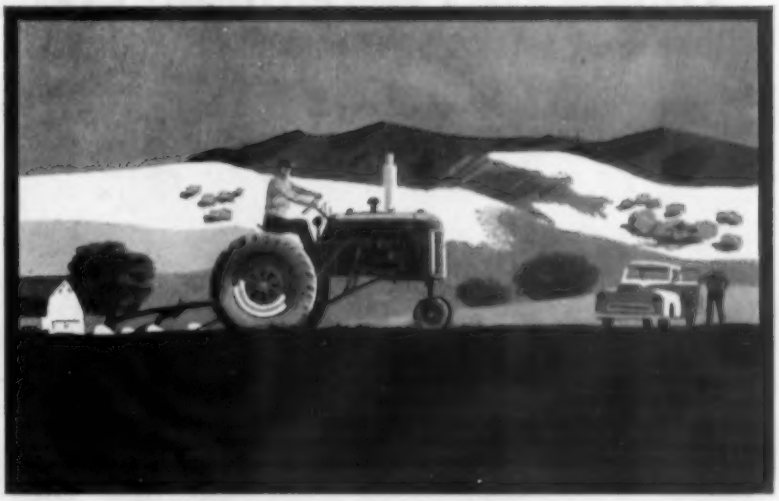

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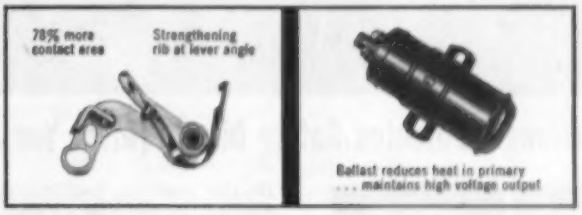

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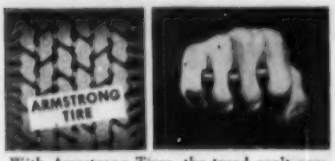
Armstrong's Patented Safety Discs Protect You Against Skids As No Other Tires Can!

Just like the edges of your fist, tread ribs of ordinary tires tend to compress into a smooth, slippery surface under pressure. This pressure causes the tread to lose its vital grip . . . and you skid!



With Armstrong Tires, the tread can't compress! Can't squeeze together. For, just like your fingers when you put rubber discs between them . . . "Ounce of Prevention" discs keep the gripping edges apart. Tread can't lose its grip on the road . . . thus preventing dangerous skids!

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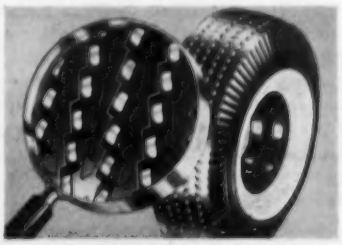
ARMSTRONG

Nylon Miracle Tires



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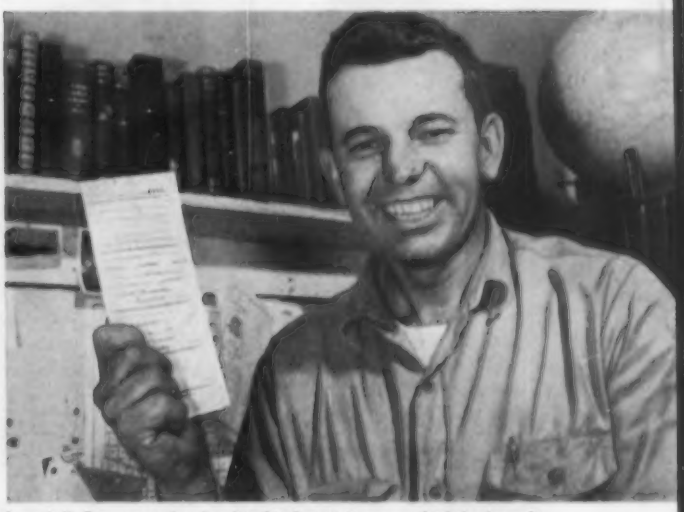
A young man can buy a farm

Here's how Dave White did it—it's a good plan for any beginning farmer: Rent as big as you can, put all your available money where it will get you the biggest return, and when you have enough rented acres, start buying land out of earnings

By Stan Geiser and Wayne E. Swegle



Last fall, Dave got the deed to his first 100 acres which he bought on land contract. That meant he had paid enough on the farm to get a conventional loan. Renting big enabled him to buy land

In 1941, Dave White started farming without enough money to buy a tractor. This year he's farming 992 acres—and buying 290 acres of it.

This progress hasn't come by chance. Dave has followed a simple recipe—liberally seasoned with skillful management—to bring him to his present happy financial condition.

Too many young farmers tie up all their money in buying a farm that's too small—they have little money left for *operating* expenses and they end up in financial difficulty.

Since Dave had no money for machinery when he started farming in 1941, he and his then-new bride started farming with his father. He could furnish only his labor, so received a third of the income—plus the chance to learn from an experienced farmer. Dave and Mrs. White kept their living expenses low, used most of their income to buy some secondhand farm equipment. In 1942, he rented 60 acres near the home farm. Dave kept his working agreement with his father. With some equipment to contribute to the business, he went on a 50-50 basis with his dad. The next year he kept the 60 acres and rented an additional 80 acres.

Dave increased his rental acreage as fast as he could. By 1944 he was farming 300 acres. In 1945 the Whites rented a 412-acre farm near Morristown, Indiana—and moved there from the home farm at Raleigh.

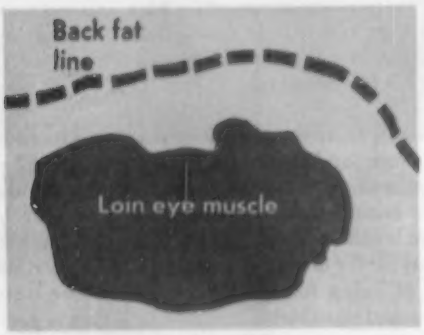
In 1952 Dave had a chance to buy a 100-acre farm near the 412-acre farm he rents. He bought it, with his father-in-law. (The house on this farm provides a comfortable home for Mrs. White's parents, and they can handle the well-mechanized broiler business and dairy operation developed by Dave and his father-in-law.)

In 1953, Dave bought 240 acres near Morristown. This farm and the 100 acres bought in 1952 were purchased on a land contract, since Dave didn't have enough down payment for a regular loan. Dave is still renting as much land as he can handle to pay for the farms without sacrificing a good standard of living for his family, which now includes a son and daughter. [*Turn to page 144*

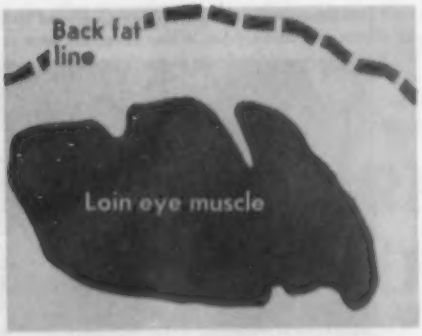
Dave spends many hours planning ahead on whole farm operation. Mrs. White keeps the farm records

Photographs: J. C. Allen & Son

Picture above shows Fulk making rib eye tracings between 12th and 13th rib. Drawings below were made from tracings of grand champion carload lot. Difference in high and low loin eye area—29 percent



Smallest loin eye measured 10.1 square inches



Largest loin eye measured 13.08 square inches

Now—we're on

By Kenneth Fulk
Field Representative, Iowa Beef Producers Association

Is there a meat-type beef animal? Is there a significant difference in the amount of well-marbled, lean meat? Outside fat? Bone?

About 2 years ago, I asked around to find the answers to these questions and found none. So I decided to find out for myself.

There is a meat-type beef! I know because I've found that kind of animal.

Sure, we know there is a difference in dressing percentage. But dressing percentage doesn't tell us much. It just tells us how much lean, fat, and bone there is in the carcass. It doesn't tell us how much there is of each. We've known for some time now that the housewife is interested in just one portion of a carcass—*the well-marbled lean meat.*

We know what the consumer wants. We know some animals yield more lean meat than others. But the big job still remains to be done. How can we select the animals that will fill the bill?

I'd like to tell you how I found out there is more lean meat in one animal than another. First, I had to find a group of uniform steers in type and finish. I used the grand champion carload at the International—about as uniform cattle as you will ever see. I made a tracing of the loin eye muscle on not only the grand champion load but 6 other loads as well.

The results of the grand champions and 4 other carload lots are shown in the table at right.

The grand champions (Lot No. 1) were an extremely uniform load of ideal-type cattle. They had rib eyes which averaged 11.6 square inches (smallest and largest loin eye muscle shown at left). The largest rib of the 15 steers was 13.08 and the smallest was 10.1 square inches—a variation of 2.98 square inches or 29½ percent. *Certainly nearly ⅓ more lean meat is of significant importance!*

The average loin length of all the steers measured 16.3 inches. By multiplying this figure by the area of the largest rib eye in the grand champion load, we found the top steer yielded 213.2 cubic inches of edible loin meat. By comparison, the bottom steer yielded only 164.4 cubic inches. *The difference represents a good-sized chunk of meat.*

How about back fat? They averaged 1.31 inches. The leanest of these steers had .92 inches over his loin and the fattest 1.69 inches, or *86 percent more.*

The grand champion steers had an average live weight of 1,012 pounds and a dressing percentage of 66 percent.

Lot 2 placed 8th in their class and averaged 1,057 pounds. They were tight-hided steers, hard finish,

the track of meat-type beef

Cattle—like hogs—are in for some changes. We know the consumer wants more lean—there's a big difference in the lean meat in an animal. Our job is to select the meat-type

cut up some in the flank, deep bodied, and had trim bulging rear quarter. They dressed out 66.4 percent.

Lot 3 weighed an average of 1,031 pounds and placed 5th in their class. They were deep-fleshed steers, somewhat extreme in lowsetness, a little coarse shouldered, with thick hides and lacking uniformity. They dressed out 64 percent.

Lot 4 placed 1st in class and had an average weight of 1,150. These were fat steers with deep mellow fleshing, fat over ribs, deep bodied, deep flanked, good-gaining cattle and not especially stylish. They dressed out 64.8 percent.

Lot 5 placed 3rd in small class. They averaged 1,168 pounds. These were big, upstanding cattle, shallow bodied, with thin hides, and lacking in finish of other cattle. These particular cattle dressed 65.2 percent.

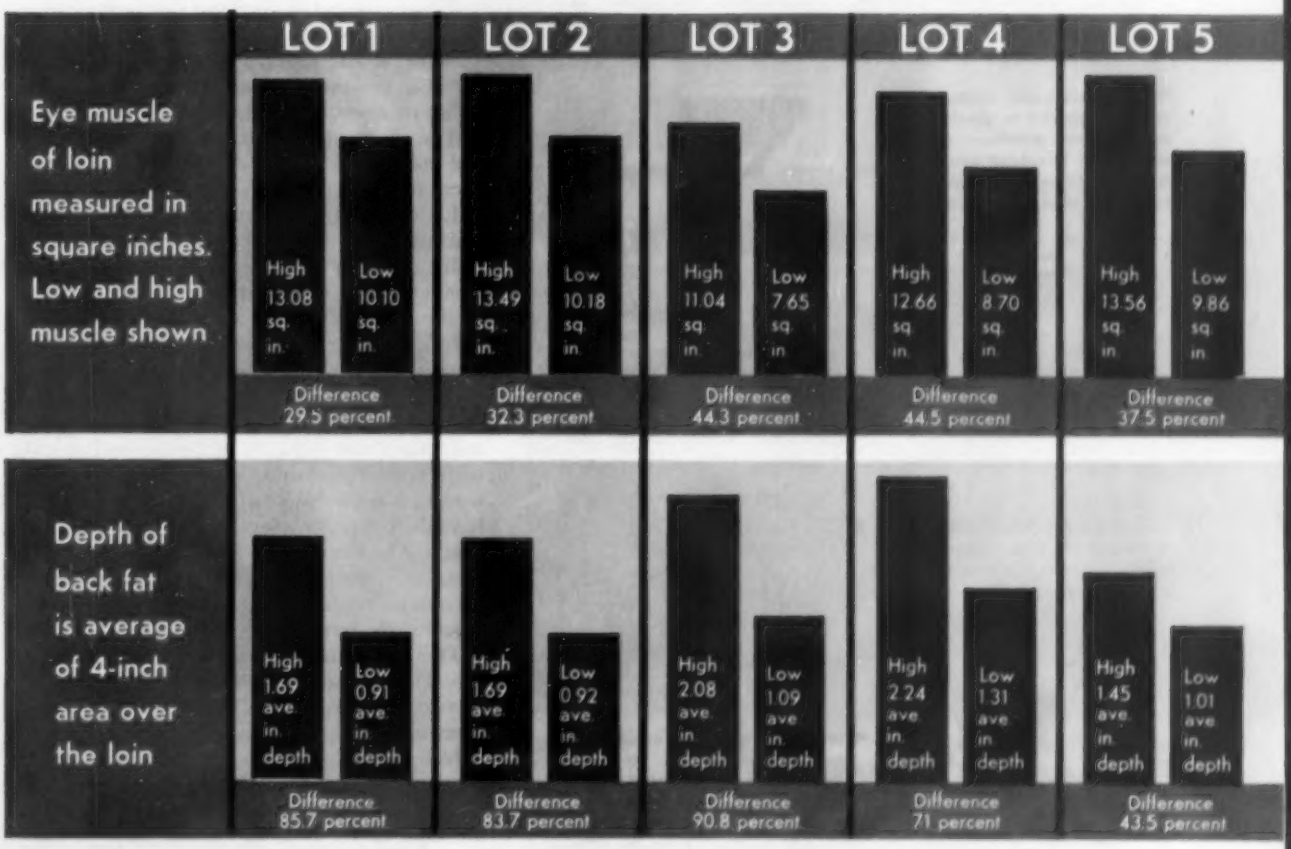
All cattle in lots 2 and 4 were definitely Prime. In lots 3 and 5, however, when the carcasses were ribbed down, some were downgraded from Prime.

In lot 3, four ribs were downgraded from Prime to Choice and oddly enough 3 of them had smaller than average eye muscles and all 3 had almost 2 or more inches of back fat—the fourth was not fat enough to grade Prime.

In lot 5, there were 6 out of 15 steers downgraded to Choice. Their average back fat was 1.25 inches so they, too, were not quite fat enough for Prime.

In these comparisons, lots 1 and 2 definitely stood out for having the greatest amount of loin muscling for their size. *Bigger cattle and also* [*Turn to page 100*

High and low measurements of loin eye, back fat of 5 carload lots

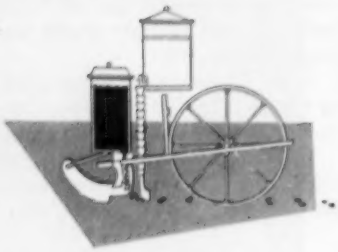


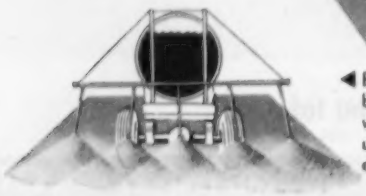
Soil insects—one problem you can really lick

By George D. Johnson

Here are six different ways to treat for them

Seed treatment, often used on corn, sometimes on soybeans. Usually you mix in dust before planting, but some hybrid corn may be treated when purchased. Will control seed insects and light wireworm attacks



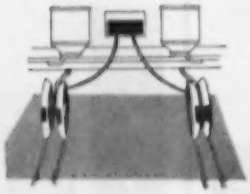


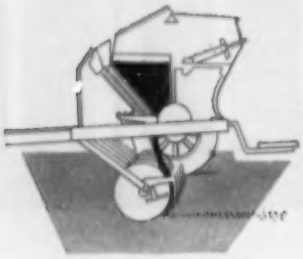
Broadcasting the insecticides before planting can be done with sprayer, airplane, or granular machine. Most grass seeders will apply granules, also

Fertilizer-insecticide mixture can be broadcast to get the same over-all treatment as above. All broadcast treatments should be worked into soil soon after application

Starter fertilizer-insecticide mix is applied with planter. This works well against rootworms, wireworms, seed insects. Usual rate is ½ pound of actual aldrin or heptachlor per 100 pounds of fertilizer. Costs about $1.50 per acre

This planter attachment meters granular insecticide into starter fertilizer tubes. This gives the same control as a ready-mixed fertilizer-insecticide





Seed treatment stops small grain and sorghum insects. For false wireworms, seed is treated with 2 to 3 ounces of aldrin, heptachlor, or dieldrin per 100 pounds. For white grubs, insecticides are added to drill box at 1 pound per acre

Aldrin, heptachlor, dieldrin will control root and seed insects affecting major crops. Applied as seed treatments, insecticide-fertilizer mixes, or directly onto the soil

The age of soil insecticides is here. Surest sign of this is that with corn it's no longer a question of whether to use them, but *how* and *which insecticide*. On other crops such as wheat, soybeans, sorghum and legumes, soil insect control is becoming increasingly important.

Leading entomologists in several states have said that seed treatment should be the minimum soil insect control on corn and that heavier treatments are profitable in many situations.

Some of the older soil insecticides such as B.H.C., lindane, and chlordane are also still being recommended under certain conditions.

The six most common methods of applying soil insecticides are shown at left. We'll refer to them in this article.

Let's begin with corn because it's here where soil insecticides have given some of the most profitable results. You are dealing with costs of from around 5c an acre for seed treatment to about $4.00 for a heavier soil treatment. A saving of only 350 stalks per acre or less than 5 percent of a stand will pay for the heaviest soil treatment.

Your decision, then, is whether the heavier soil treatments will pay. If you've had trouble with corn rootworms, white grubs or wireworms, a *soil treatment* will correct them. If you haven't had problems of this sort the *seed treatment* will be worthwhile. The seed-damaging insects—seed corn beetle and maggot and light wireworm problems are solved with a small amount of insecticide on the seed.

The soil treatments are usually a pound of actual heptachlor or aldrin per acre against rootworms and 1½ to 2 pounds against grubs, wireworms, grape colaspis and European chafer (which is a problem in the east). These rates will give at least partial control of black cutworms. Over-all soil treatments can be made by spraying the diluted emulsions of the insecticide on the soil either before or after [*Turn to page 104*

Photographs: Hufnagle

Soil insects worked over untreated rows in this cornfield

J. Clark Young of Corso, Missouri, grew 16 acres of second-year corn in 1955. He was worried about rootworm so applied, through his planter, a half-pound of aldrin mixed in 125 pounds of 4-16-16 to the acre. That is, on all but the rows above which received straight 10-10-10 but no insecticide.

Half-pound of soil insecticide made 1/5 more corn

Corn from an untreated row weighed 300½ pounds. Where insecticide-fertilizer mix was applied, an equal length of row alongside the untreated yielded 357½ pounds of corn.

This was about 1/5 more and is a typical example of results anyone can expect where rootworms are present. The reason can be seen at left comparing damaged and treated roots.

Early insects reduced stand in the check strip in this Iowa cornfield. Waldo Widmann of Webster City looks at his check row which didn't receive aldrin mixed with the fertilizer as a starter treatment.

White grubs stopped cold in this wheat by drill treatment

Dieldrin here | Four rows of wheat only | Four rows with heptachlor in seed box

White grubs riddled this wheat except where Kansas State College researchers mixed insecticide with the seed. Not a seed treatment—the wettable powder is actually stirred into seed box at 1 pound of insecticide per acre

And, it's easy to decorate when you use colored appliances with wood cabinets

Look and see the snappy change—the same kitchen with 3 color schemes. It's easier to change scheme when floor color *blends with* cabinet. Antiqued copper oven enhances mellow wood of cabinets. Any other available colored appliance will give an equally interesting effect. Classic stainless steel looks good and durable wherever it's located. Steel look is repeated in light fixtures.

And look what happens when color combines with kitchen-white cabinets

White, black, and stainless steel as nonchanging kitchen equipment are friendly hosts to color. Try tangerine if you're daring. Gray with accent color and design is hearty kitchen interpretation of tone on tone. Dramatic plum also has a future here. Using new colors in equipment, see how kitchens can have long-lasting beauty and convenience!

Welcome color to your kitchen

By Ruth Bos

Color—color everywhere—is the theme of today's kitchen. And, you needn't be afraid. Let color in; capture your gayest mood in the room in which you spend one third of your time.

Remember how your decorating eye went to work when the kitchen gave up its institutional look and soft, natural-finish wood came into the kitchen cabinet picture?

Here are 3 kitchens demonstrating how color, welcomed to the kitchen, does not tie you to one decor. Kitchens can look different as often as you wish by simply changing the wall treatment, the accessories, and the window treatment.

Each of these 3 kitchens uses one cabinet type—wood, white, or colored. Used with them are colored appliances, including stainless steel and copper.

By *blending* floor covering with cabinet color, there is greater opportunity to change kitchen redecoration.

Curtain fabrics and wall treatment give the desired unequal balance for the contrasting color chosen. Let one of these be bold for accent; the other patterned to tie all the colors of the kitchen together at one spot. Choose accessories to "bolster up" major colors.

Photographs: Hedrich-Blessing

All yellow—the long-lived equipment—and three so different decorating schemes

All yellow equipment is no decorating problem—see it here 3 ways, and dream up more. Note how draperies (in large picture) are plain because wall is patterned. Figured draperies were used for other 2-color schemes. Gray from the floor takes on each of the wall colors, respectively; aqua, navy blue, and brown. Accessories distribute color through the room, are functional, and give a "this-is-my-kitchen" look to your surroundings. Drop ceiling extends out beyond the wall cabinets to allow for soffit light.

Company Egg Casserole

A bright, colorful main dish—Children will love it and even Dad will go back for seconds

Garden Salad
Almond Asparagus
Cloverleaf Rolls
Butter Jelly
Mocha Spice Cake
Coffee Tea Milk

Glorified Tuna

A tasty tuna mixture served in pretty parsley-flecked rice nests. Quick and easy to fix

Sunny Citrus Salad
Savory Green Beans
Salad Bread
Butter Jam
Cheesed Apple Pie
Coffee Tea Milk

Photographs: Snook, Photography, Inc.

Lemon Salmon Loaf

Spoon a tangy lemon sauce over this tasty loaf. Can also be made in small custard cups

Waldorf Salad
Gold-flecked Potatoes
Sunday Limas
Butter Egg Rolls Preserves
Orange-Cheese Cake
Coffee Tea Milk

Lenten Trio

Three delicious meals planned with the pre-Easter season in mind, yet tempting enough that you can serve them all year long. Meatless main dishes are stars of the show, but equal billing goes to tasty vegetables, pretty salads, and hot breads

By Mary K. Farnen

Company Egg Casserole
(Makes 6 to 8 servings)

1 5- or 6-ounce package (2 cups) noodles
½ cup chopped onion
½ cup chopped green pepper
3 tablespoons fat
1 No. 2 can (2½ cups) tomatoes
¼ pound (1 cup) grated process American cheese
¼ cup butter
¼ cup flour
½ teaspoon salt
6 hard-cooked eggs

Cook noodles in boiling salted water till tender; drain. Cook onion and green pepper in hot fat till tender but not brown. Add tomatoes; simmer 10 minutes; add cheese. Melt butter; blend in flour and salt. Stir in tomato mixture; cook and stir until thick. Place half the cooked noodles in a 2-quart casserole; slice 3 of the eggs over the noodles; top with half the tomato mixture. Repeat layers, covering egg slices with tomato mixture. Bake in moderate oven (350°) 25 minutes.

Almond Asparagus (Makes 6 to 8 servings)

2 10-ounce packages frozen asparagus spears
Salt and pepper
Butter, melted
Toasted slivered almonds

Cook asparagus in boiling salted water just till tender. Drain; season with salt and pepper and pour butter over. Garnish with almonds.

Mocha Spice Cake (Makes two 9-inch layers)

¾ cup shortening
1½ cups sugar
3 eggs
1¾ cups sifted cake flour
½ teaspoon baking powder
½ teaspoon salt
½ teaspoon soda
¾ teaspoon nutmeg
1 teaspoon cinnamon
2 tablespoons cocoa
1 teaspoon vanilla
1 teaspoon lemon extract
¾ cup sour milk
½ cup pecans, toasted

Cream shortening and sugar till light. Add eggs, one at a time, beating well after each addition. Sift dry ingredients together. Add vanilla and lemon extract to sour milk. Add dry ingredients and sour-milk mixture alternately to creamed mixture, mix well. Fold in nuts. Pour into 2 paper-lined 9-inch round cake pans. Bake in moderate oven (350°) about 40 minutes.

Mocha Frosting

1 pound package sifted confectioner's sugar
3 tablespoons cocoa
½ cup butter
¼ to ½ cup strong coffee
2 teaspoons vanilla

Sift sugar and cocoa together. Cream butter. Add sugar and coffee alternately, beating well after each addition. Stir in vanilla. Will frost two 8- or 9-inch layers.

Glorified Tuna (Makes 6 servings)

2 6½ or 7-ounce cans tuna
1 4-ounce can (1 cup) mushroom pieces
½ cup chopped onion
1 clove garlic, minced
¼ cup butter
1 can condensed cream of mushroom soup
1 tablespoon Worcestershire sauce
Salt and pepper
2 tablespoons catsup
1 teaspoon paprika
1 cup sour cream

• • •

3 cups hot cooked rice
3 tablespoons chopped parsley
3 tablespoons melted butter

Drain tuna and flake. Drain mushrooms and save liquid. Cook onion, garlic, and mushrooms in butter till tender. Add mushroom liquid, soup, seasonings, and sour cream. Stir until blended; add tuna and heat through. Mix hot rice with parsley and butter; toss lightly. Serve as a bed for tuna mixture.

More recipes on page 116

Dark woodwork was bleached to lighten room. Corners weren't forgotten. Antique shelf holds collection of miniatures. Leather hatbox holds magazines; cabinet grouping balances on other side of door.

Small space is well decorated in this area off master bedroom. Antique shield-back mirror on pine table makes dressing table. Nylon washable curtains let in lots of light. Closets are on either side.

Little bathroom has big ideas. L-shaped counter makes room for two basins with roomy cabinets below. Two narrow doors instead of a large one make this possible. Other end is glassed-in shower stall.

A small farmhouse with big decorating ideas

By Polly Cramer

The Edward Frechtlings of Hamilton, Ohio, found remodeling plus well-planned decorating could solve all the problems in their "little farmhouse"—and make it just right for their way of farm living. Every room is filled with clever decorating ideas, and furniture is well arranged

When the Edward Frechtlings moved to Sky Meadows Farm 10 years ago, they found the little white frame farm home presented a few problems. They had a beautiful view of the farm and countryside, but windows were small and didn't take advantage of the view. Mr. Frechtling, who raises Polled Herefords, needed an office to keep farm records. Rooms were small, woodwork was dark.

Remodeling and planned decorating answered these problems. In rooms with a view, picture windows replaced small ones. The living and dining rooms were opened into one large living room which could be arranged well to show off the nice furnishings. Porch became an office. A bedroom and bath were added in the back. Mrs. Frechtling didn't miss a corner in decorating. *Your* home and problems may be like those of the Frechtlings. If so, you can put some of these ideas to work.

Large living room was two small rooms before remodeling. Fireplace wall, newly paneled, and bookcases make a center of interest in room. See how attractive fireplace is with well-placed accessories. Furniture is placed in groupings. Four big pictures over sofa make balanced arrangement with sofa group.

Picture window on opposite side of living room frames a picture of outdoor view. "Leather chair and sofa are practical for farm living," says Mrs. Frechtling. Small chair matches drapery pattern. Old black pot holds small magazines. Furnishings are simple, but charming.

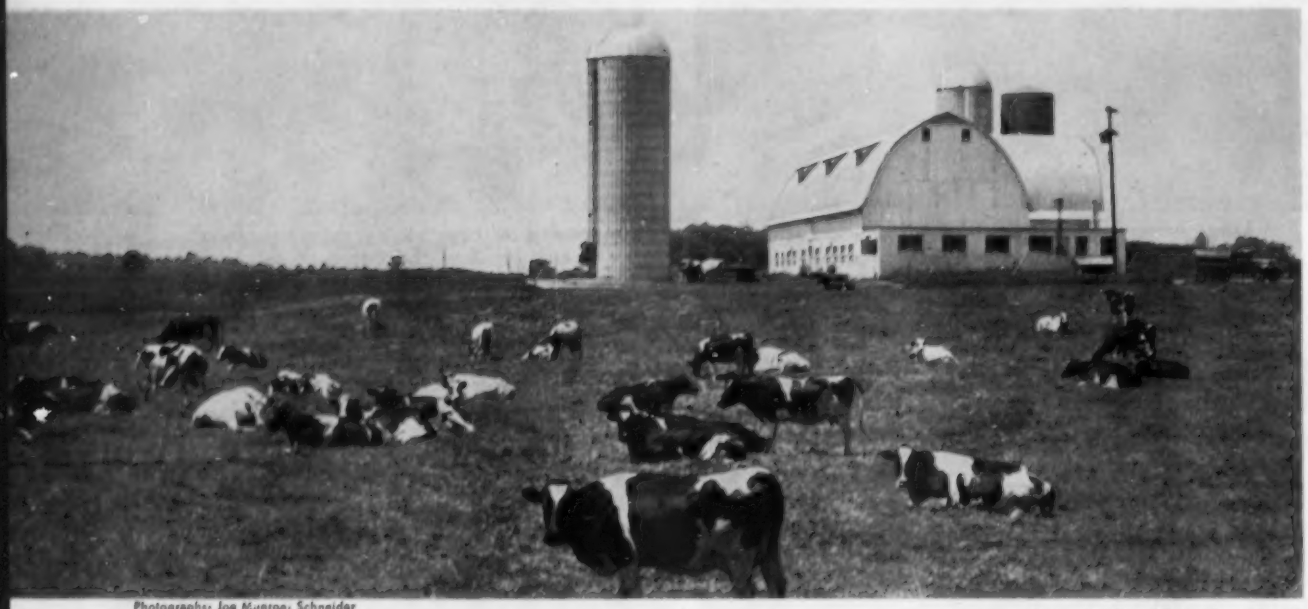
Small dining area in kitchen not only appears larger, but makes mealtime pleasant with beautiful view out of corner windows. Outside is summer terrace for eating and entertaining. Note how cleverly Mrs. Frechtling hung pictures above windows. Light pulls up and down, depending on light wanted.

Front porch was enclosed as office for Mr. Frechtling. Windows all around give him view of farm and buildings as well as drive. Furnished in southwest style he likes, it is comfortable and practical. Bamboo blinds are used instead of curtains. It makes cheerful, efficient office.

Cheery master bedroom has this corner for Mrs. Frechtling with Windsor rocker; on opposite corner is big leather chair and lamp for her husband. Large windows give view of hills and valley. Draperies were hung to side so as not to hide view.

Small bedroom became guest room which also is den. Dark-green wallpaper sets off gay plaid bedspread and pillows. Bed placed in corner makes room appear larger. Each grouping is complete—as table, lamp, and mirror.

They feed out of storage



Photographs: Joe Munroe, Schneider

Hay crusher speeds drying, gets forage in storage faster

Feeding out of storage all year allows the Crockers to make most of the rank-growing first crop into silage. The later cuttings are made into top-grade hay.

In the fall, the silos are refilled with corn silage. That's where the Crockers want their corn—in the silo. They pick only what they can't cram into silos. Crops are raised for one purpose—to keep cows full of feed.

Only pasture is a 10-acre field connected to barnlot

From April to November, the 60 cows have the run of a 10-acre creek-bottom pasture. You might call it a giant exercise lot. The cows don't even keep this pasture eaten close, and they never show the desire for "greener pastures" across the fence.

The Crockers feel they have failed in their feeding program if the cows come up in production when turned into this pasture.

Top-quality hay and silage cut down on grain feeding needs

The secret of feeding from storage is to keep cows full of top-quality forage. Cows eat 60 pounds of silage and 10 pounds of hay per head daily in summer. When available, 40 pounds of wet brewers grain is fed.

Heavy milkers get 5 to 6 pounds of grain per day—others get only 3 to 4 pounds. Farm grains—ground oats, corn—only are fed.

all year

The Crocker Brothers have gone all the way in getting efficient production per acre. They've tried rotational grazing and green feeding, but feeding from storage all year suits them best. Their aim: as much feed as possible in their silo

By Vernon Schneider

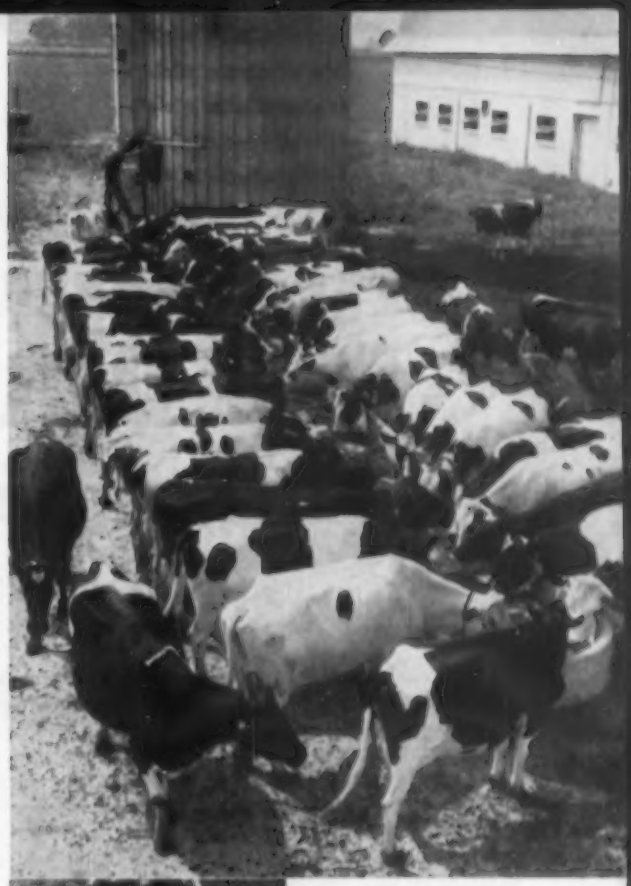
Dairy cattle on the Crocker farm near Valley City, Ohio, *are fed from storage the year round*. Brothers Art and Don think this system works best of anything they've tried yet—and they've tried just about everything.

The Crockers keep a milking herd of 60-some registered Holsteins, plus another 60 head of young stock on 205 acres. Two farms are run as one unit. Art and Don say, "We've gone all the way in this feeding business, starting with just turning the cows out on pasture."

Next came rotation pasture, using bluegrass in the spring and meadow mixtures later in the season. Daily rationing was tried but the Crockers didn't like it. "We thought it was too wasteful—you turn 60 cows into a strip of lush forage and within 15 minutes 90 percent of it will be trampled down," report the brothers.

Green feeding of chopped forages was the next logical step and this was practiced for 3 years ending last summer. Art says, "We decided it was too much effort to get out into the field every day and chop. It had to be started each day and it took too much valuable time."

Their next step was to go all out in the production and feeding of crops produced on their farm. Feeding out of storage filled the bill. It allowed them to harvest the crops at the optimum stage of growth and it gives them a constant supply of top-quality dairy feed the year round.



Automatic feeder gives year-round grazing at silage bunk

The 75-foot feeding bunk extends into barnlot from base of silo. An automatic silo unloader (top) dumps silage into end of bunk. An electric-powered conveyer distributes silage.

The three silos at the milking barn hold about 700 tons of silage. Two more at the other barn where the young stock is kept hold another 300 tons. This gives a silage capacity of 1,000 tons. The five silos were filled last year with the first crop from 55 acres of grass-legumes and then refilled with corn in the fall.

Unloaders are used for winter feeding from the silos at the modern dairy barn. It's a stanchion barn with 4-stall milking parlor, pipeline unit, bulk cooler, and milk house built as part of the original barn setup in 1949. There are stanchions for 60 cows in two rows facing the center feeding aisle. Silage is fed from a feeding cart and hay is dropped into the aisle from slots above.

The mow has capacity for 300 tons of baled hay, although 150 tons are all that is needed. One hundred tons of straw for bedding is also kept in a section of the mow. Cows are turned into the barnlot daily for exercise while on winter feed.

What kind of production can you expect from a high-roughage ration fed out of storage the year round? The dairy herd improvement association record for last year was 444 pounds of butterfat and over 13,000 pounds of milk per cow for a herd of 63 cows. The top cow made 776 pounds of fat and two first-calf [*Turn to page 124*

Young stock, dry cows also summer fed from storage

Supplemental summer feeding of silage out of storage fills in needs of young stock and dry cows. However, they also graze a 25-acre creek-bottom pasture not suited for cultivation. A stripped-down hayrack takes silage to pasture

How to use Successful Farming's

BIG SIX

in farm homes

By S. S. DeForest

1 A front door on drive so guests will enter there

2 A farm business center located in handy place

3 A central hall to keep traffic from work areas

4 A wash-up area located near the rear door of house

5 Workroom space easily reached from rear door

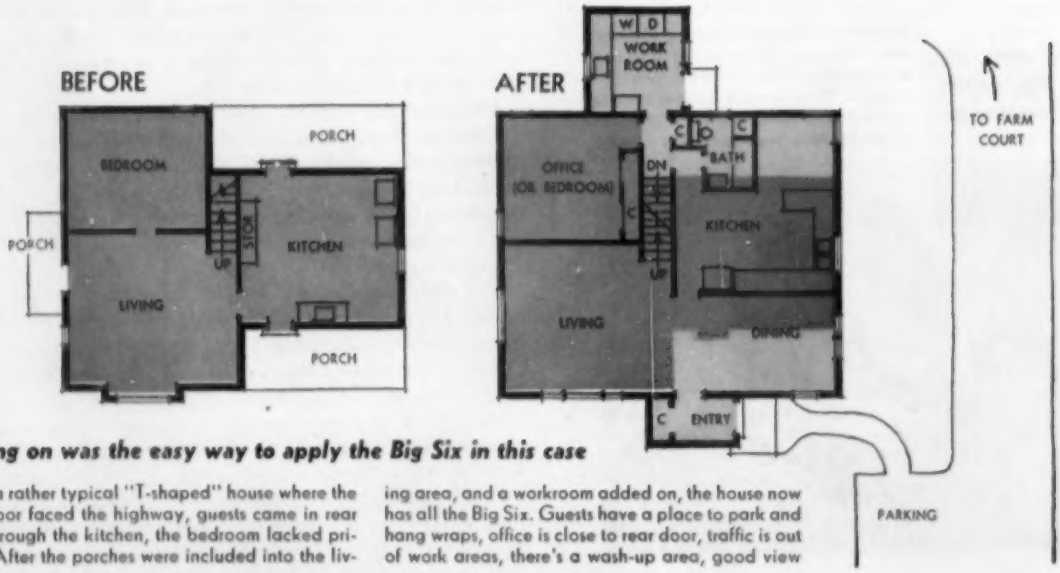
6 Kitchen or work area view of farm buildings, drive

What can I do to get my friends to come to the front door? I wish we had a permanent, convenient place to keep bills, income-tax records, and to answer the telephone. If only we had a way to keep traffic out of my kitchen when I'm getting meals. How can I arrange to have a wash-up area near the back door so farm workers can leave their boots and clean up before meals? My kitchen isn't in the right place for me to see visitors drive in. Or arranged so I can do the laundry or freeze and can without climbing so many steps.

How often have you heard remarks like these? Perhaps you've made them yourself. If you have—and few farm people haven't—*Successful Farming's* Big Six in farm homes will be important to you whether you have a house in need of remodeling or whether you plan to build a new one. The Big Six, listed at right, *is basic to all houses on farms for convenient, gracious farm living.* Let's look at it more closely.

1. A front door on the drive, attractive and inviting, noncompetitive with any other door, one guests will use. Why let all your friends and relatives come in the rear door, through the kitchen into the living room? Put your front door in a place in plain view of the drive. Provide a convenient parking area for guests' [*Turn to page 180*

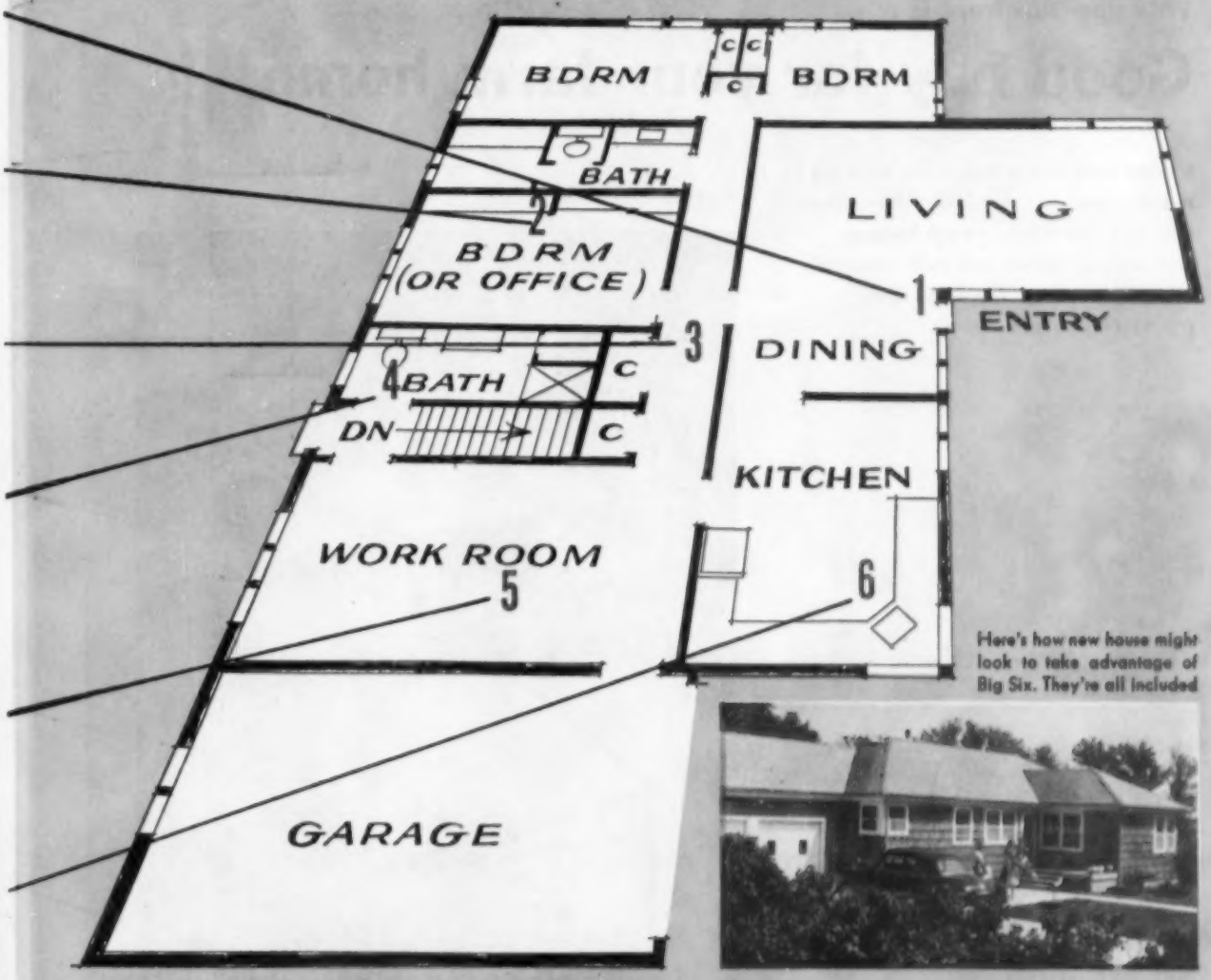
The Big Six is usable in remodeling, also. Here are two examples:



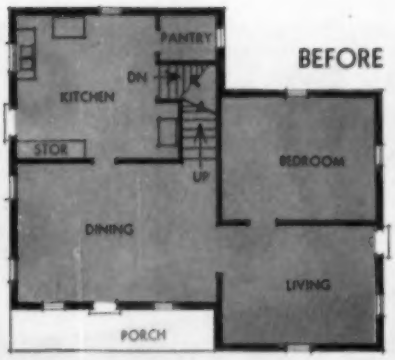
Adding on was the easy way to apply the Big Six in this case

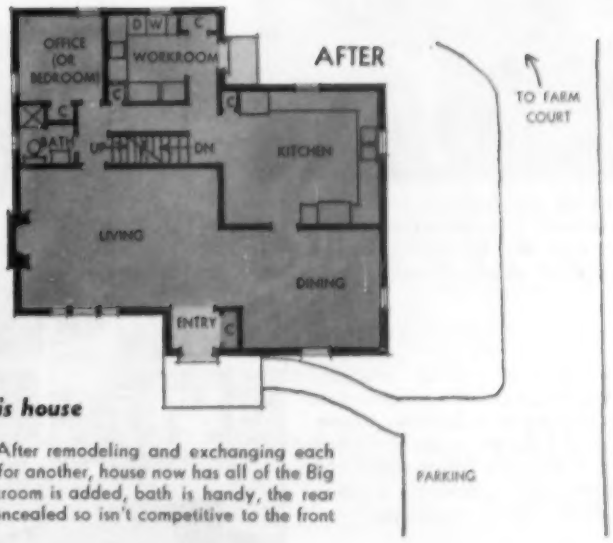
This is a rather typical "T-shaped" house where the front door faced the highway, guests came in rear door through the kitchen, the bedroom lacked privacy. After the porches were included into the living area, and a workroom added on, the house now has all the Big Six. Guests have a place to park and hang wraps, office is close to rear door, traffic is out of work areas, there's a wash-up area, good view

Successful Farming's Big Six is a list of requirements that makes a house plan a farmhouse plan. Use it to fit your house to your farm



Here's how new house might look to take advantage of Big Six. They're all included





Rearranging floor plan was answer to Big Six in this house

There was plenty of space in this house—but it was poorly arranged. Kitchen was on wrong corner, traffic was across kitchen to basement and rest of house; there was no office area or wash-up area for farm workers. After remodeling and exchanging each room use for another, house now has all of the Big Six. Workroom is added, bath is handy, the rear door is concealed so isn't competitive to the front

This new furniture is a

Good buy for your farm home

It takes more than a reasonable price tag to make furniture a good buy. These pieces give you your money's worth because they are well scaled, well built, practical, and good looking. You'll find them just right for your farm home

By Betty Fisk

In the market for sofa and matching chair? Then look twice at these. Well scaled, comfortable, and go well with any other furnishings. A good buy—both pieces under $275.

You'll never worry about spilling food or ruining the table top if you own this new dining table with ceramic tile top. It's pretty and practical. Tile-topped coffee table serves as a bench with cushions added.

Photographs: Hedrich-Blessing

If you like the warmth of maple, you'll love this bedroom furniture with simple lines and brass hardware. Of solid rock maple, the three pieces cost only around $350 complete.

This little table goes big for family get-together, or when you have extra farm help to feed. Folds down to only 24 inches when not in use, or extends up to 8 feet with leaves added and seats 10 persons comfortably. It comes in blonde, walnut, or mahogany.

Here's plenty! Plenty good! Plenty nourishing!

Help yourself... there's happy eating in every bite of Campbell's Vegetable Soup. And there's wholesome, health-building nourishment — vigor aplenty and to share for the family and its friends.

You can have that bowl of goodness hot and ready in four minutes. And you couldn't match it if you cooked for hours.

For what time in the year, we ask you, could you serve fifteen vegetables at the peak of their flavor? Vegetables rushed from field and farm to be cooked at their prime — to preserve vitamins, minerals, precious nutrition! Vegetables sorted by Campbell experts so that only the very choicest are used — no specks, no over-ripes, no culls. It's care like this that makes Campbell's Vegetable Soup a great eating experience — and a sound contribution to your good nourishment.

And it's entertaining tricks like filling up a party tureen with Campbell's Vegetable Soup that keep a hostess happy — and please and content her guests.

Why don't you serve soup and different kinds of crackers when guests drop in!

SOUPS SUPPLY BASIC NUTRITIONAL NEEDS

PROTEINS— for upkeep and growth

VITAMINS and MINERALS— for vitality

CARBOHYDRATES—for energy

LIQUIDS—for digestion

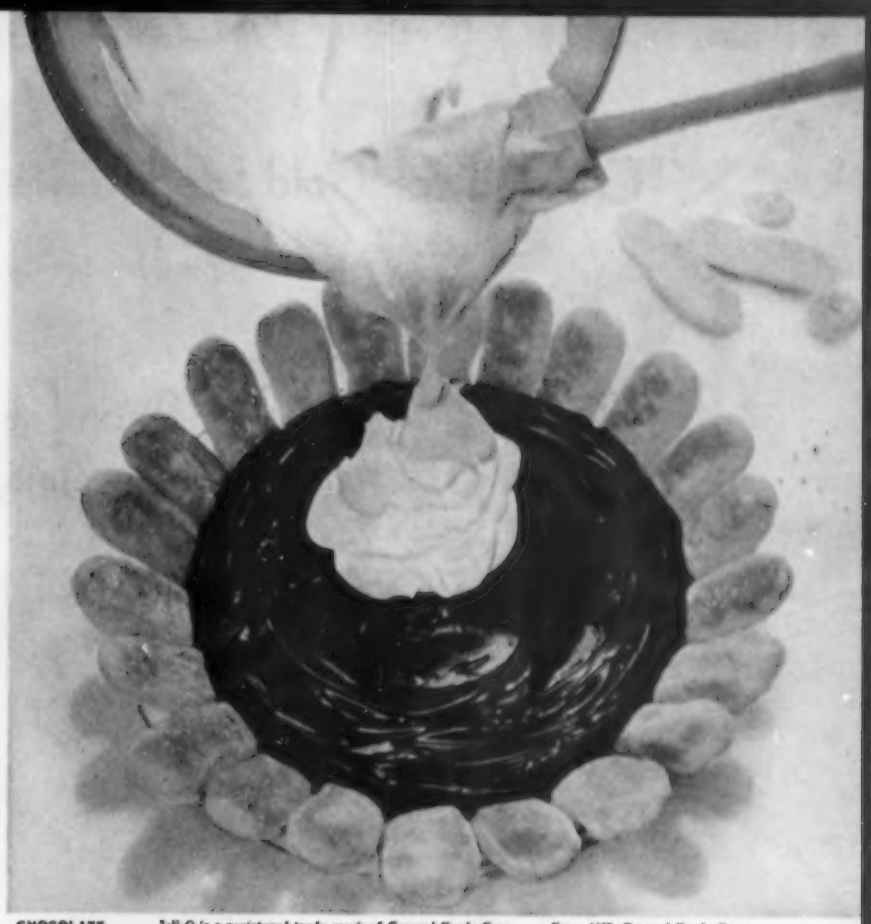
Once a day... every day... SOUP!

COCONUT CREAM

BUTTERSCOTCH

Now! Perfect Pies in half the time...

LEMON



CHOCOLATE

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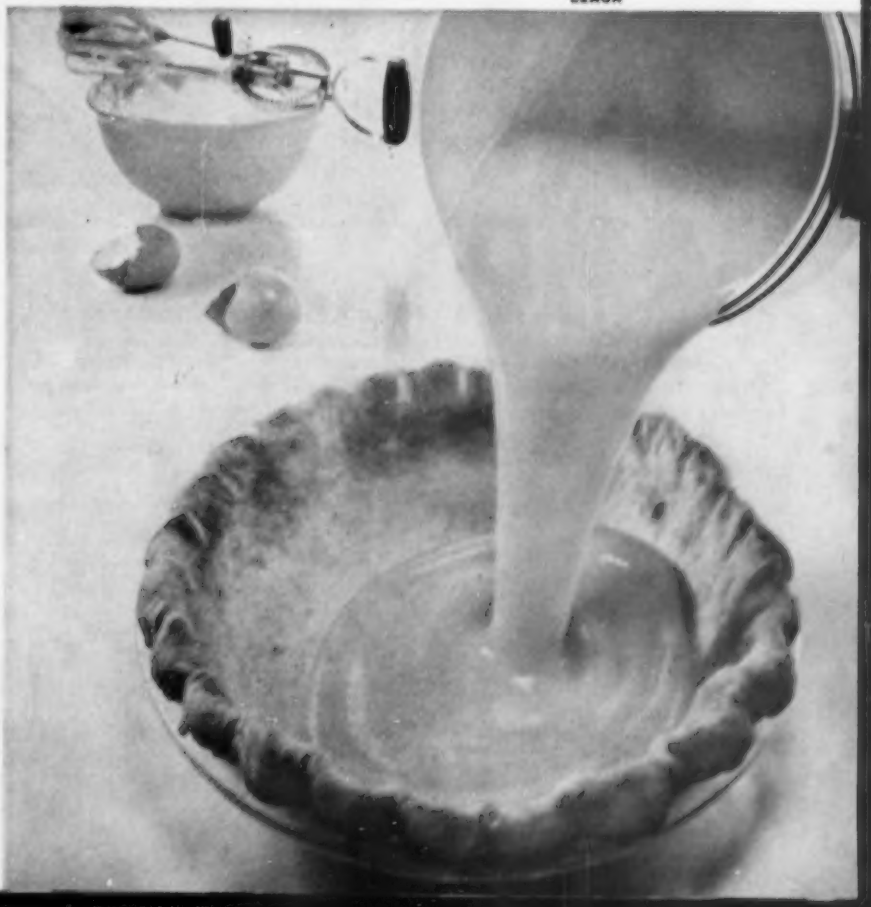
.. with Jell-O Puddings and Pie Fillings

VANILLA

LEMON



"Created for Gold Medal—it's better pastry!

Golden Treasure Tarts—

new and so easy," says
Betty Crocker
OF GENERAL MILLS

Delicious filled with creamed ham, tuna, or chicken for main dishes . . . fruit, ice cream, or pudding for dessert.

An exciting new pastry idea created by Betty Crocker especially for Gold Medal *"Kitchen-tested"* Flour! It's fun to work with and easy to shape. It's pastry that's *better*...beautifully golden, flaky, tender...a wonderful "come-back-for-seconds" pastry. But that's Gold Medal! Whatever you bake, dependable Gold Medal works with all the other ingredients to help you bake it better!

GOLDEN TREASURE TARTS

2 1/4 cups *sifted* GOLD MEDAL *"Kitchen-tested"* Flour	1 tsp. salt
	3/4 cup FLUFFO
	5 to 6 tbsp. water

Heat oven to 425°. Mix Gold Medal Flour, salt. Cut in Fluffo. Sprinkle with water, mix well with fork. Round up dough, roll out thin about 1/8" thick. Cut into 5" squares or circles. Prick with fork. Place over inverted custard cups or salad molds on baking sheet. Bake 12 to 15 minutes. Cool before removing from cups. Makes 12. Serve with fillings of your choice. See recipe folder in Gold Medal sack for other suggestions.

Gold MEDAL

Bake it Better WITH GOLD MEDAL

THE *"Kitchen-tested"* FLOUR

Photographs: Nelson, Photography, Inc.

Cheese-Corn Casserole (Serves 4)

- 3 beaten eggs
- 1½ cups milk
- 2 cups canned whole kernel corn, drained
- 1 cup finely chopped green pepper
- 1 cup grated American cheese
- 1 cup cheese cracker crumbs
- ¼ teaspoon paprika
- ½ teaspoon salt

Mix together eggs and milk. Combine remaining ingredients; add to egg and milk mixture. Bake in greased 1½-quart casserole in moderate oven (350°) 50 minutes.—*Mrs. Elmer Stowell, Wisconsin.*

Cheese Rolls (Makes 10 rolls)

- 2 cups sifted flour
- 2 teaspoons baking powder
- 1 teaspoon salt
- ½ teaspoon soda
- 6 tablespoons butter
- ¾ cup buttermilk
- 1 cup (¼ pound) grated mild process cheese

Sift together dry ingredients; cut in butter; add buttermilk and mix quickly. Turn onto lightly floured surface; knead lightly a few seconds. Roll ¼ inch thick into 16x10-inch rectangle; sprinkle with grated cheese. Cut in 1½-inch squares. Stack in piles of five squares. Place in well-greased muffin pans with cut edges up. Bake in very hot oven (450°) 12 to 15 minutes.—*Mrs. C. E. Swender, Iowa.*

Cheesed Deviled Eggs (Serves 4)

- 4 hard-cooked eggs
- 2 tablespoons mayonnaise
- 1 teaspoon prepared mustard
- 1 tablespoon chopped pimiento
- 1 tablespoon chopped parsley
- ½ teaspoon salt
- Dash pepper
- ½ pound diced American cheese
- 1½ cups thick white sauce
- ¾ cup buttered bread crumbs

Halve eggs lengthwise; remove yolks and mash with next 6 ingredients. Fill whites with yolk mixture; place in 10x6-inch buttered baking dish. Melt cheese in white sauce; pour over eggs. Top with crumbs. Bake in hot oven (400°) till brown.—*Mrs. Philip H. Lauer, Iowa.*

Crisp Buttermilk Waffles
(Makes 8 waffles)

- 2 cups sifted flour
- 2 teaspoons baking powder
- ½ teaspoon salt
- ½ teaspoon soda
- 3 tablespoons sugar
- 2 beaten eggs
- 2 cups buttermilk
- ¼ cup melted shortening

Sift together all dry ingredients. Combine the eggs, buttermilk, and shortening; add to dry ingredients and beat well. Bake on hot waffle iron till crisp. Serve hot with maple syrup, your favorite jam, jelly, or preserves.—*Mrs. L. W. Foubert, Iowa.*

Pancakes and waffles

Try these new variations of luscious golden-brown pancakes and waffles for a special Sunday breakfast or supper soon

Cut out these recipe pages and file them in your favorite cook book

Marmalade Pancakes (Makes 32)

½ cup sifted flour
¼ teaspoon soda
¼ teaspoon baking powder
½ teaspoon salt
½ cup whole-wheat flour
1 beaten egg
½ cup orange juice
2 tablespoons melted butter
½ cup orange marmalade

Sift together first 4 ingredients; stir in whole-wheat flour. Combine egg, orange juice, butter; mix into dry ingredients. Stir in marmalade. Drop by tablespoons on hot griddle. Brown on both sides. *Orange Sauce for cakes:* combine 1 beaten egg, 1½ cup honey, ½ cup orange juice, 1 teaspoon grated orange peel, 2 tablespoons hot water, 3 tablespoons butter, dash of salt. Cook over water till thick; stir often.—*Mrs. Julia Foley, Connecticut.*

Date Waffles with Lemon Sauce
(Makes 16 waffles)

2 cups sifted flour
3 teaspoons baking powder
1 teaspoon salt
¼ cup brown sugar
1 cup chopped dates
3 beaten eggs
1½ cups milk
½ cup melted shortening

Sift together dry ingredients; add remaining ingredients; stir only till smooth. Bake in hot waffle iron. *Lemon Sauce:* combine 1½ cups sugar, 3 tablespoons cornstarch, ⅛ teaspoon salt, and 1 cup hot water. Cook, stirring often, till thick; stir in 3 tablespoons lemon juice, 1 tablespoon grated lemon peel, and 2 tablespoons butter.—*Dorothy Hofbauer, Nebraska.*

French Pancakes (Makes ten pancakes)

3 beaten egg yolks
1 teaspoon sugar
½ teaspoon salt
⅛ teaspoon cinnamon
1 cup milk
½ cup sifted flour
2 tablespoons melted butter
3 stiff-beaten egg whites

Combine yolks, sugar, salt, and cinnamon with ½ the milk; beat well. Stir in flour; add remaining milk; beat till smooth. Stir in butter. Fold whites into yolk mixture. Bake 6-inch thin cakes on greased griddle. Spread with currant jelly. Roll; sprinkle with powdered sugar. —*Mrs. B. L. Stoermann, Minnesota.*

SUCCESSFUL RECIPES Tested in Successful Farming's Tasting-Test Kitchen

Cut along dotted lines

Cheese Potatoes (Makes 4 servings)

3 tablespoons melted butter
4 medium-size boiled potatoes, peeled and sliced
¼ cup finely crushed corn flakes
½ cup finely grated sharp process cheese
1 teaspoon salt
½ teaspoon paprika

Pour 2 tablespoons butter into shallow 11x7-inch baking pan. Place potatoes in baking pan. Brush tops with remaining butter. Combine corn flakes, cheese, salt, and paprika and sprinkle over the potatoes. Bake in hot oven (425°) about 15 minutes or until top is lightly browned.—*Clarence H. Puff, Pennsylvania.*

Cheese specials

Perk up your March meals with these choice cheese recipes. They'll satisfy the heartiest of blustery weather appetites

Three good

Brownie recipes

Some prefer their brownies chewy — others enjoy them more like cake. Pick out your family's favorite

Chewy Brownies (Makes 24 squares)

½ cup butter
1 cup sugar
2 eggs
2 1-ounce squares unsweetened chocolate, melted
1 teaspoon vanilla
⅔ cup sifted flour
½ teaspoon baking powder
½ teaspoon salt
¾ cup chopped walnuts

Thoroughly cream butter and sugar. Add eggs; beat. Blend in chocolate, vanilla, and sifted dry ingredients. Mix in nuts. Spread in a greased 9x9x1¾-inch pan. Bake at 350° for 30 to 35 minutes. Cool slightly and cut into squares.

Cake-type Brownies
Makes sixteen 2-inch squares)

1¼ cups sifted flour
1 cup sugar
¾ teaspoon salt
1 teaspoon baking powder
⅓ cup cocoa
½ cup soft shortening
2 eggs
1 teaspoon vanilla
½ cup chopped walnuts

Sift together flour, sugar, salt, baking powder, and cocoa into mixing bowl. Add shortening, eggs, and vanilla. Beat for 2 minutes. Stir in nuts. Spread in a greased 8x8x2-inch pan. Bake at 350° (moderate) for 30 to 35 minutes. Cool; cut into 16 two-inch squares.

Chocolate Nut Frosting for Brownies

½ 1-ounce square unsweetened chocolate
1 tablespoon butter
2 tablespoons milk
¾ cup sifted confectioners' sugar
Chopped nuts

Place chocolate, butter, and milk over hot water and heat until chocolate melts. Add confectioners' sugar and beat till smooth, and of spreading consistency. Spread over brownies and sprinkle top with chopped nuts. Cut into squares or bars to serve.

Blonde Brownies
(Makes sixteen 2-inch squares)

¼ cup butter
1 cup light-brown sugar
1 egg
¾ cup sifted flour
1 teaspoon baking powder
½ teaspoon salt
1 teaspoon vanilla
½ cup chopped nuts
Dates

Melt butter; remove from heat; stir in brown sugar. Cool. Beat in egg. Sift together dry ingredients; stir into brown-sugar mixture. Add vanilla and nuts. Mix well. Spread in well-greased 8x8x2-inch pan. Bake in moderate oven (350°) 30 to 35 minutes. Cut in diamonds or squares. Decorate with slivers of dates.

'56 NORGE washer with SUPER-RINSE gives you 5 Purifying Actions

Fresh, clear water flushes away everything from lint to sand!

1 TWO FORCE-SPRAY RINSES!
Heavier dirt and soap loosened and whisked away by whirling "needle-point" sprays.

2 OVERFLOW RINSE!
Lighter-than-water soap scum and lint skimmed off and carried up and out of washer.

3 AGITATOR OVERFLOW RINSE!
Embedded dirt flushed out by agitator action; any excess soap scum carried away.

4 AGITATOR DEEP RINSE!
Special "insurance rinse" makes certain every last trace of embedded dirt is out.

5 AUTOMATIC DIRT DISPOSAL!
Heavy particles trapped at the tub bottom are ejected automatically during final rinse.

Two Separate Automatic Cycles

Exclusive Time-Line® Control gives you a Normal Cycle for fully automatic washing and rinsing of regular loads . . . a Short Cycle to do the same for delicate fabrics or part loads. Even cashmeres wash automatically the Norge Riplette® way.

New Automatic ReSUDSer®

Lets you toss in second load, turn knob, set Time-Line and walk away. Suds water is returned after which new washing cycle begins . . . all automatically.

Also a complete line of wringer washers

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HELP EISENHOWER

pass the new farm program

You will benefit this year if Congress acts before spring planting time

"Although agriculture is our basic industry, farm families find their prices and incomes depressed amid the nation's greatest prosperity.

". . . An oversupply of commodities drives down prices as mounting costs force up from below, generating a severe price-cost squeeze.

". . . Remedies are needed now, and it is up to the administration and the Congress to provide them swiftly. As we seek to go forward, we must not go back to old programs that have failed utterly to protect farm families.

". . . I recommend, therefore, the following nine-point program. *I urge the Congress to pass this program with maximum speed*, for delay can only aggravate and multiply the difficulties already sorely harassing millions of our rural people."

Dwight D. Eisenhower

From the President's special farm message to Congress.

Answers to some of your questions

Q: Why will it work?

A: Because this is a program *for* farmers *by* farmers. We asked for, and got, sound advice from hundreds of farm leaders and thousands of farmers everywhere. This program gets at the root of the problem on a practical, non-political basis. It contains no double-talk or bureaucratic theories. It is the most business-like, down-to-earth approach to the business of farming and marketing of farm products this country has ever had.

Q: Why is it a more practical program than others that have been offered?

A: Because it is especially tailored to today's peacetime conditions. It hits right at the problem of price-depressing surpluses built up because of wartime policies too long continued. These surpluses hang over your farm like a hidden mortgage.

Q: Will all farmers benefit?

A: This program will directly benefit *all* farmers everywhere: producers of food grains, feed grains, oilseed and fiber crops, dairy men and livestock producers. It recognizes the special problems of regional groups and producers of certain crops.

Q: Will this program help strengthen farm prices?

A: Yes. The present mountain of surplus, and the threat of future surplus, now holds down prices. Every farmer realizes that "a government warehouse is not a market." As surpluses are used up prices will inevitably rise. (Marketing people have estimated that net farm income would have been $2,000,000,000 higher in 1955 if it were not for the surpluses.)

Q: How much will it help?

A: Hundreds of millions of dollars in payments to farmers can be made

The Eisenhower-Republican 9-Point Farm Program

1. **A VOLUNTARY, 2-POINT SOIL BANK** to take 40 to 45 million acres out of production of your problem crops, get rid of the surplus, raise prices.
   An Acreage Reserve which uses the surplus to reduce the surplus.
   A Conservation Reserve to prevent future surpluses and to build back soil for future needs.
2. **LAWS TO PERMIT FASTER SURPLUS DISPOSAL** especially in foreign markets. Selling, not storage, is the answer.
3. **STRENGTHEN COMMODITY PROGRAMS** on wheat, corn, dairy products, soybeans, cotton and rice. Ease production controls wherever possible.
4. **PROTECT FAMILY-TYPE FARMS** by limiting the size of price support loans made to large corporate-type farms.
5. **EXPAND RURAL DEVELOPMENT PROGRAM** to help low-income farm families live better, earn more.
6. **PUSH FORWARD THE GREAT PLAINS PROGRAM** to stabilize income in drought-stricken areas, and to prevent another dust bowl.
7. **INCREASE FARM RESEARCH APPROPRIATION** to find new uses and new markets for farm crops, lower production costs and increase farm profits.
8. **ASSURE ADEQUATE CREDIT TO FARMERS** to meet capital needs of present farmers, help young farmers get started, tide farmers over emergencies.
9. **REFUND GASOLINE TAX TO FARMERS** on motor fuel used in farming operations.

this year under the Soil Bank plan alone *if passage is not delayed.* This is in addition to its effect in strengthening farm prices. Farmers would also get $60,000,000 a year tax refund on gasoline used in their farming operations.

Q: How big is the surplus?

A: The government now holds an $8-billion stock of farm products. We can't shut our eyes to it, throw it into the ocean or plow it under. It costs about a million dollars a day for storage and carrying charges alone.

Q: Why do surpluses drive down livestock prices as well as grain prices?

A: Continued overproduction of grains not only clogs the grain markets but forces continued expansion in an already over-expanded livestock production. Livestock prices as well as grain prices would be higher today if it were not for the surplus.

Q: Why is the new Soil Bank Plan the most sensible approach to the surplus problem?

A: It will get rid of the surplus and prevent future surplus from piling up. It will stop the shift of another farmer's problem crops to *your* problem crops.

Q: How does the Soil Bank "Acreage Reserve" use the surplus to reduce the surplus?

A: In exchange for placing a portion of their allotted crop acres in the Soil Bank (removing them from production entirely for an agreed period), farmers will receive certificates. These certificates will be good for cash at the bank or for commodities drawn from surplus government stocks. In this way farmers will be using up the surplus instead of adding to it. This part of the program applies to corn, wheat, cotton and rice.

Q: How will the Soil Bank "Conservation Reserve" keep future surpluses from building up?

A: It will take 25 million acres out of *all* crop and livestock production for several years. This land will be put into grass, trees or water storage. It is voluntary and provides generous incentives for widespread participation. It, too, will help livestock producers as well as grain producers since it will reduce the surplus of feed grains that put more and more people into the livestock business.

Q: Are these programs entirely voluntary?

A: Yes. President Eisenhower and the Republican Party believe it is a basic right of every farmer to be free to plan his own farm program and make the best use of his land that he knows how. They also believe that farmers should have the chance to build up their soil without loss of income. The well-being of all Americans, as well as the future prosperity of farmers themselves, depends on maintaining productivity of our soil resources. Farmers who participate will no longer feel that they are forced to farm every acre to the limit, producing crops that aren't needed, in order to keep their income up.

Q: How do I benefit if I put some of my acres in the Soil Bank?

A: You get an opportunity to restore the fertility of your soil and at the same time you are assured of an income from the land you retire. As surpluses are reduced, prices will increase on crops you do produce.

Q: Why will Soil Bank participation help insure my income?

A: It will strengthen your cash position by giving you a guarantee—in effect, income insurance. The acres you take out of production will provide income regardless of drought, flood or other disaster.

Q: How will the Soil Bank help livestock producers?

A: With less feed grains being produced, fewer farmers will feel that they have to raise more livestock to "piece out" their income due to surplus-depressed prices of grain. Participants in the Soil Bank plan will sign an agreement not to graze their diverted acres.

Q: When does it start?

A: Just as soon as the necessary legislation can be enacted. The President has urged all possible speed so farmers can plan their plantings and benefit fully *during the present crop year.* Your Republican members of Congress are behind the President. They believe the more you know about the program, the more you can help. You can help by writing members of Congress urging immediate action.

WRITE YOUR SENATORS AND CONGRESSMAN TODAY

Honorable_____
The Capitol, Washington, D. C.

YES, I am in favor of the Eisenhower Farm Program. Let's get it passed before spring planting time so we can start getting our prices and income up this crop year.

Name_____
Address or RFD_____
City_____ State_____

(This message sponsored by the Republican Senatorial and Congressional Committees, Washington, D. C.)

A GIANT WORKING

IN YOUR FIELDS!

There's nothing quite like *Vertagreen*. It goes to work quickly on your crops and has the staying power of a muscular giant. This complete, balanced fertilizer provides amazing growing energy in your fields. *Vertagreen* is made in an analysis recommended for your soils and crops. See your Armour Agent.

ARMOUR FERTILIZER WORKS

A-frame

replaces square dryer duct

Experience has shown the Bierly Brothers, Bellefonte, Pennsylvania, the advantages of using an A-frame air duct in drying chopped hay.

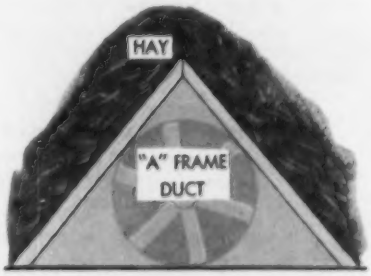
To ensure high-quality feed for their dairy herd, Sherman and Nevin installed an 8-foot-square air duct in their hay mow. The air was moved with two 5-hp, 42-inch fans.

The first season they placed very green hay in the 32-foot mow, the fans failed to dry the hay and it spoiled.

The hay had settled away from the top corners of the square duct, leaving large channels (see drawing below) all along

the duct to the ends of the mow. The air flowed down this channel instead of traveling evenly through all the hay.

They solved their problem by replacing the square duct with an A-shaped frame duct. The hay now settles firmly about the duct, and the air is evenly distributed through the hay.—*Elwood Olver*.



Winter woods

Above are branches hung with snow
Where birds that stay the winter go
To leave their patterned steps below.

Despite wild secrets that they keep
The woods are hushed as though
asleep,
The hush as deep as woods are deep,

And we who trespass must forbear;
We suddenly become aware
Of something sweet and sacred there.

—**Ruby Zagoren**

SUPER 88 HOLIDAY SEDAN

Starfire Styled!

and sparkling with new ideas!

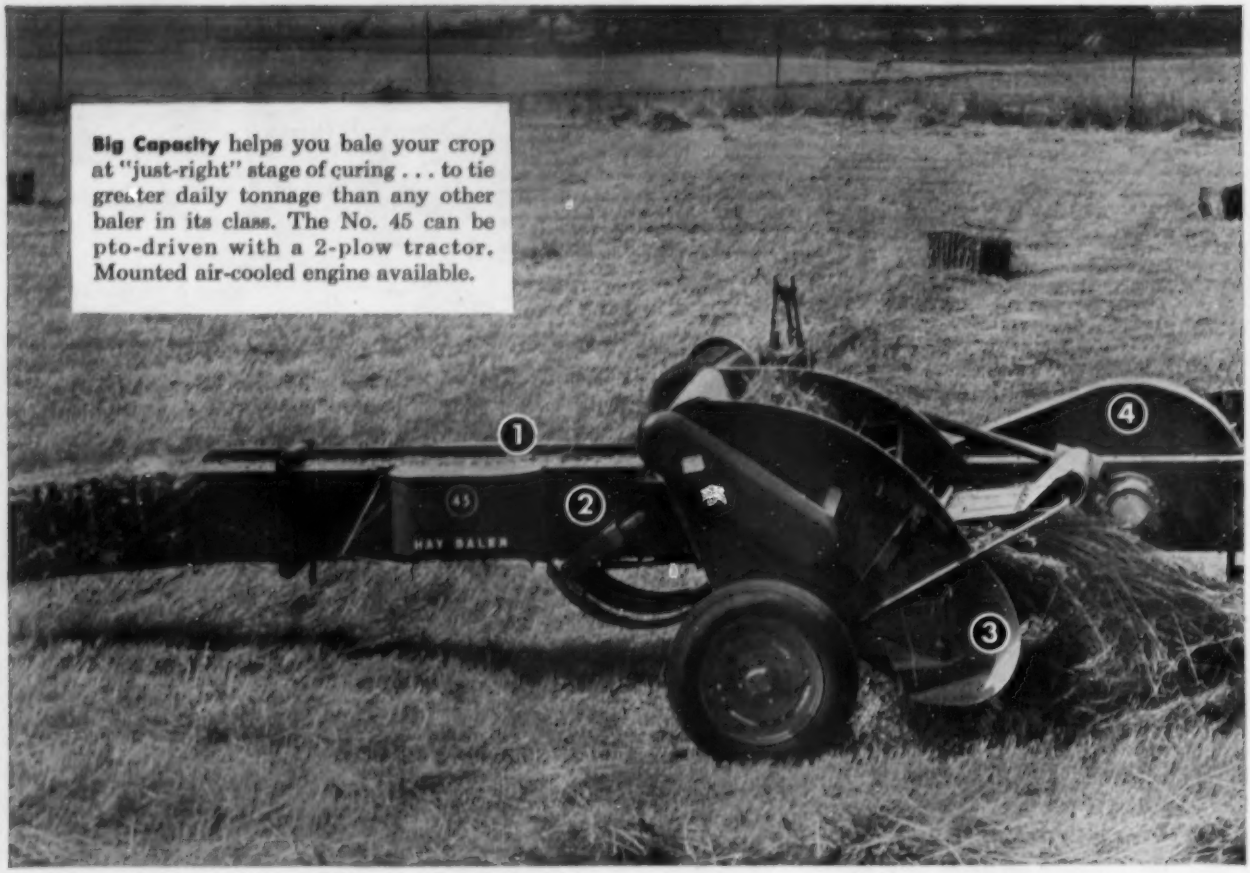
You're smart if you look ahead . . . smart if you buy a car that's styled and powered to stay new for years. *That's why it's smart to own an Olds!* For Oldsmobile has the *out-ahead* features, the *stay-ahead* styling, the *go-ahead* power of tomorrow! Just look over this "feature" line-up: Terrific Rocket T-350 Engine! Smooth, responsive Jetaway Hydra-Matic*! A brand new "Intagrille Bumper" that combines beauty and full-depth protection! And interiors are the ultimate in luxury and comfort! Come see Oldsmobile for '56 and try out the many features of the future!

**Standard on Ninety-Eight models; optional at extra cost on Super 88 models.*

OLDSMOBILE

TOP VALUE TODAY . . . TOP RESALE TOMORROW!

Why more farmers prefer the McCORMICK®



Big Capacity helps you bale your crop at "just-right" stage of curing . . . to tie greater daily tonnage than any other baler in its class. The No. 45 can be pto-driven with a 2-plow tractor. Mounted air-cooled engine available.

1. Longer bale chamber makes neater, denser bales . . . as heavy as 70 pounds. You can make 30 or 36-inch bales . . . hold the bale density you choose *automatically*—in any crop—with optional hydraulic regulator.

2. Baler safeguards head off breakdowns . . . avoid costly "down" time. Needle breakaway (shown), plunger stop, flywheel shear bolt, pickup slip-clutch, and V-belt auger drive keep you baling all day long.

3. Low-level pickup, platform, and wide-mouthed bale chamber opening reduce hay travel and handling to save feed-rich leaves. Wide, 52-inch floating pickup makes it easy to get all the hay in heavy or bunchy windrows.

First electrically-driven hay baler! Now, you can power the heavy-duty McCormick No. 55 baler with new Electrall®. Engine or pto drive available. Ties up to 12 tons an hour with twine or wire.

Tie your hay at lower cost per ton!

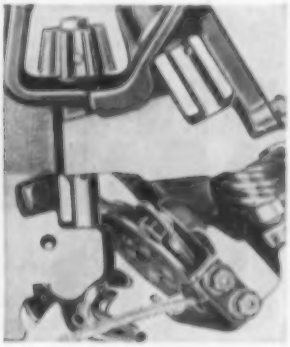
McCormick baler twine is made of true sisalana fiber . . . its uniformity and quality is backed by a *written guarantee* in every bale. It runs longer—9000 feet per bale. It's stronger—325 pounds average tensile strength. You tie heavier bales, more hay with each ball! You save on twine costs . . . handling time . . . storage space!

No. 45 than any other baler in its class!

See how *pace-setting* IH features make it the leading feed saver... the non-stop baling "champ"

Because the McCormick No. 45 has proved itself a top feed saver, *more are in use than all other family-sized balers put together!* Because of built-in stamina that keeps many 100,000-bale veterans going strong, *more custom operators use the McCormick No. 45 than any other make in its class!*

The popularity of the No. 45 baler is based on engineering leadership. The twine-tying, pto-driven No. 45 *first* made baler ownership profitable on smaller farms. It pioneered low-level pickup and floating auger for uninterrupted feeding and big daily tonnage! These features are but two that give the No. 45 baler performance that can't be copied!



4. Non-stop plunger slices each charge ... packs bales uniformly. Together with big-capacity feeding and unequalled tying dependability, it helps the No. 45 to match tonnage with outfits claiming 30 to 50% greater capacity!

Floating auger adjusts to big or small windrows—*automatically!* It moves hay to packer fingers gently, positively. Packer fingers feed hay into bale chamber. Their adjustable stroke helps you get uniformly dense bales in heavy or fluffy crops.

Simplified twine knotters have only 11 rugged parts. You get positive tying without frequent adjustment. Firm ties, close to the bale, prevent buckling.

Ask your IH dealer for proof that it pays to own a McCormick No. 45 baler for as little as two days' baling a year! Check that *extra* built-in strength that keeps McCormick balers going strong far beyond their 100,000th bale. Ask about the IH Income Purchase Plan of Buying that lets any McCormick baler—2 sizes, 8 models—pay for itself in use!

SEE YOUR

INTERNATIONAL HARVESTER DEALER

International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crawler and Utility Tractors and Power Units—General Office, Chicago 1, Illinois

Send for FREE Catalog

International Harvester Company
P.O. Box 7333, Dept. SF-3, Chicago 80, Illinois

Tell me how a McCormick baler can save me time, feed and hard cash. Send catalog checked.

☐ No. 45 Baler ☐ McCormick Baler Twine
☐ No. 55 Baler ☐ IH Electrall for Tractors

Name_____ ☐ Student

Post Office_____ State_____

My IH dealer is_____

Crop surrounded by quack grass
...where no MH is used

KILL QUACK GRASS with MH

MH was sprayed on quack grass
prior to planting this crop

Quack grass is licked! Now MH not only reduces quack grass growth, but also eliminates this nuisance, in areas devoted to high-value crops. MH is so safe that seeds of vegetable and field crops can be planted on treated areas as soon as plowing and preparing the soil are completed. No soil toxicity.

Order MH from your local supplier today. Write, wire or phone us if unable to locate immediate source of supply.

SEE—Naugatuck Chemical Division, United States Rubber Company, at work on NBC's "Color Spread" TV spectacular, Sunday, March 25, 7:30 PM, EST.

United States Rubber

Naugatuck Chemical Division

Naugatuck, Connecticut

producers of seed protectants, fungicides, miticides, insecticides, growth retardants, herbicides: Spergon, Phygon, Aramite, Synklor, MH, Alanap, Duraset.

Soils and

Once-over tillage

Plow with plow packer attached. No additional seedbed preparation is necessary. The field is ready for planting to corn or soybeans.

This hook-up, shown above, was the lightest draft of a number of tools tried by Michigan State College. They tested a cultipacker with spring teeth between the packers, a revolving bladed tiller, and a rotary hoe run backward.

Once-over tillage saves $3 per acre in labor, and leaves the soil in better physical condition and better tilth, according to Michigan State College after 9 years of testing.

Early oats sowing

How many years have you waited and waited and finally had to "mud 'em in"? Paul Witmer, Columbiana, Ohio, does not let bad weather hold up his oats planting. He gets them in plenty early to ensure a good stand during cool growing weather.

Here's how he does it: Instead of discing, he goes over the dead furrows and ends thoroughly with a spring-tooth harrow. When the ground is dry enough on top to keep the grain drill on the surface, he's ready to plant. He hooks a cultipacker behind the tractor. Behind the cultipacker he hitches the grain drill—and he's off! The packer makes a good seedbed for the grain drill.

He's been doing this for 5 years with very good results.

Now's the time to try a few acres this way yourself.

Planting alfalfa in drilled rows

Ohio Experiment Station has found certain advantages in planting alfalfa in drilled rows, instead of broadcast. The row plants were larger and more vigorous—the roots were about 2½ times heavier—they recovered more quickly after cutting, and they drew less heavily on soil

crops

moisture than did the broadcast plants.

Disadvantages were coarser stems and more weeds on weedy land. Yields from alfalfa drilled in rows 16 inches apart were approximately equal to those of broadcast alfalfa.

Grazing small grains

Reports from a 4-year experiment in New Jersey show:

1. Wheat produced about two-thirds as much fall and spring grazing as the same size field of rye.

2. Fall grazing did not lower the grain yield the following season if started when the crop was 5 to 7 inches tall and stopped when it was reduced to 2 inches.

3. Spring grazing, from 6 to 8 inches down to 2½ inches, lowered grain yields by about one-third.

4. Fall grazing did not affect the length of straw, but spring grazing reduced it by 25 to 30 percent. Lodging was also reduced considerably.

Will it pay? At present wheat prices, it probably won't pay to graze wheat in the spring. Unless dairymen have used rye, it might look pretty expensive to grow rye for only 6 or 7 weeks of pasture, but in that period rye can produce as much feed as an old bluegrass sod will produce all summer.

Rye can be worth a lot, too, as a cover crop on fields which otherwise might lay bare over winter. Especially during a *dry* winter, winds can move tons of precious topsoil off of exposed fields.

Choice of companion crops for alfalfa

A field experiment conducted at Michigan State College revealed that the best alfalfa stands were received when oats or barley was the companion crop and cut for grain, leaving 3-inch stubble and then removing the straw.

Different varieties of oats and barley were used in the test but the resulting alfalfa yield varied less than ½ ton per acre.

Companion crops of sudan grass, millet, and soybeans in the test, cut for hay at a height of 3 inches, resulted in fairly good alfalfa yields the following year. However, when these crops were cut for grain, there was an unsatisfactory establishment of alfalfa seedlings and the following hay crop was light.

The alfalfa yield in the first productive year appeared to be correlated with the vigor of the plants in the seedling year as well as with the number of surviving alfalfa plants per square foot.

[*Turn to page 84*

Your "mastitis trouble-makers" need *NEW* easy-flow

PENDISTRIN® HP*

*(high potency)

***NEW* HIGH POTENCY ANTI-MASTITIS ACTION... THORO... GENTLE... SAFE... ECONOMICAL... NOW MADE ESPECIALLY FOR HARD-TO-CLEAN-UP COWS**

Do as your veterinarian does! Give mastitis trouble-makers special attention with a product made especially for them. Ask your druggist for *new* PENDISTRIN HP, developed by Squibb for cows which contract mastitis more often, and are more difficult to clean up and get back in the milking line.

NEW HIGH-POTENCY ANTI-MASTITIS ACTION

Built on a basic formula* which controls virtually all types of bacterial mastitis, new Pendistrin HP** contains *2½ times more Penicillin and 5 times more Dihydrostreptomycin.* You get high potency anti-mastitis action, yet Pendistrin HP cannot harm even the most delicate udder tissues.

NEW PENDISTRIN HP HELPS SAFEGUARD PROFITS

Free-flowing Pendistrin HP "searches out" mastitis organisms in your cow's udder wherever they may be. Use it promptly to clear the millions of tiny milk-secreting aveoli of infection *quickly* and *safely—before* mastitis-caused scar tissue can form, or impair profitable production.

Watch your strip cup. At the first tell-tale sign of mastitis reach for a tube of Pendistrin or Pendistrin HP. Pendistrin® will control the great majority of cases, but for those mastitis "trouble-makers" be sure you ask your druggist for Pendistrin HP. You'll save money and avoid those vacant spots in the milking line.

SEE YOUR DRUGGIST—BUY THE BARN BOX *AND SAVE!*

The red arrows show how Pendistrin and Pendistrin HP, blended in Squibb's special easy-flow Plasti-base®, quickly disperse throughout your cow's entire treated quarter.

*PENDISTRIN 100,000 units of Penicillin plus 100 mg. of Dihydrostreptomycin.
**PENDISTRIN HP 250,000 units of Penicillin plus 500 mg. of Dihydrostreptomycin.
PENDISTRIN, PENDISTRIN HP and PLASTI-BASE are registered Squibb trademarks.

SQUIBB, *Veterinary Department,*
745 Fifth Avenue, New York 22, N. Y.

For accurate diagnosis of mastitis, see your veterinarian.

SQUIBB QUALITY
—THE PRICELESS INGREDIENT

MAINTENANCE-FREE. The Apac ceiling of the dairy barn shown here practically eliminates maintenance problems. Note its clean-cut appearance.

FIRE WON'T EVER BURN THIS CEILING!

K&M Apac Asbestos Sheets give farm buildings lasting fire protection

Made of asbestos and cement, Apac is permanently fire-resistant. You can use it on all kinds of farm buildings, and you'll find it surprisingly low in price.

Easy to handle. The standard 4' x 8' Apac sheets are easy to work with. Cut them on the job by simply scoring and snapping. No milling or planing. A hammer, some nails . . . and they're up!

Easy to clean. Apac is ideal for inside walls and ceilings of buildings where sanitary conditions are important. Wash it or scrub it down as often as you need.

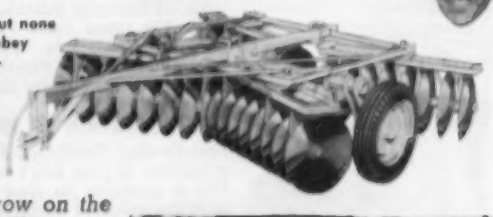
See your lumber dealer for information on fire-resistant K&M Apac Wallboard. For free folder, write directly to us.

KEASBEY & MATTISON
COMPANY • AMBLER • PENNSYLVANIA

K&M best in asbestos ®

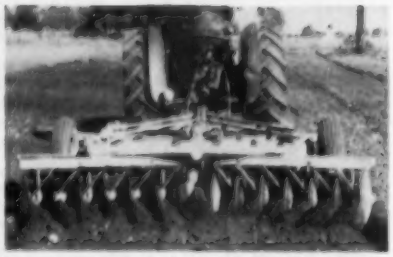
"THAT COBEY IS THE CUTTIN'EST DISC I EVER SAW" — Says Emmett Pore, Dairyman, Richland County, Ohio.

"I've used a lot of discs — but none can hold a candle to that Cobey Hydra-Flex. It's the doggonedest, cuttin'est disc I ever saw. It sure surprised me. With finger-tip angling of front and rear gangs, it sure saves work!



The Finest Disc Harrow on the Market Offering All These Features!

- Raised or lowered hydraulically for transport or depth of cut.
- Instant gang angling (both front and rear) with simply a twist of the wrist — no bolts to fuss with. Gangs angled independently!
- A multi-purpose implement to handle all tillage work. Converts to Field Cultivator, Mulcher, Pulverizer, Rotary Hoe — simply by changing Cobey gangs. One frame takes them all — with quick changeover. Get the full story. The coupon below could save you hundreds of dollars!



From pasture renovation to fine seed bed disking — the Cobey Hydra-Flex will do it better, faster, and cheaper!

THE Cobey CORPORATION GALION, OHIO

COBEY FARM EQUIPMENT
FOR HAULING, TILLING, AND HARVESTING.

Yes, send me (without obligation) the full facts on the Cobey Hydra-Flex Disc.

Name_____

City_____

R. R._____ State_____

SF-2

Soils and crops

From page 83

Try this potato in your garden

Ever wish you had a variety that would produce plenty of good-size potatoes, nearly all uniform—with no overly-large giants and very few peewees?

The Osseo, a new one from the Minnesota Experiment Station, fills that bill.

It produces round, white, smooth, and blocky tubers which are nearly all 2¼-inches in diameter.

As an early-summer type, for the home garden or for market, Osseo is promising. It yields better than either Red Warba or Waseca, which have a similarly short season.

The Osseo plant is distinctly upright and compact, with thick, sturdy stems and large leaves and white flowers. Growers who have tested the variety under farm conditions for 6 years report satisfactory results.

Planting stock is available for the 1956 potato season.

Crib tunnel saves steps

Photograph: Doughty

This 4x7-foot tunnel in one side of the 5,000-bushel double corncrib on the Paul Hasselbusch farm near Clarence, Iowa, saves him many steps in his cattle-feeding operation.

The tunnel leads to an adjoining paved feedlot where Hasselbusch has 60 fat cattle on feed. His home-built, 1,000-pound capacity conveyer carries ground corn direct from overhead bins to bunks in the lot. The conveyer has flat-rimmed wheels and axles off an old car and cost less than $5 to build. A sliding board in the bottom drops the feed into bunks.

Hasselbusch grinds the corn inside the 15-foot crib driveway and an inside elevator lifts it to the bins. The bins hold 400 bushels and have sloping floors to permit the feed to flow through chutes to the conveyer. A sliding door on a track covers the outside tunnel opening.

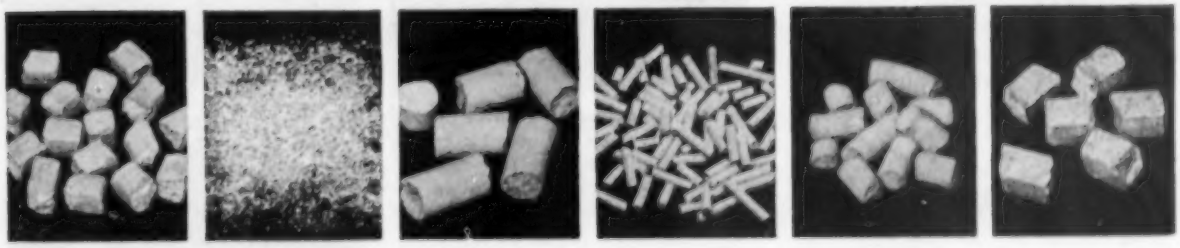
Lilly

REPORT TO CATTLE FEEDERS

Why 'Stilbosol' makes the supplement you use even more important

'Stilbosol' helps your market cattle make bigger, faster gains with less total feed cost. But 'Stilbosol' is not a nutrient. In fact, by speeding up gains, *it puts an extra burden on the ration* to furnish each steer or market heifer with all the essential elements the animal needs to build meat and bone properly. And the ration must supply it *fast enough* to keep up with the faster growth.

Good beef cattle supplements, as a part of this ration, are formulated to provide your cattle with ample amounts of vital nutritional elements. A skilled and efficient feed industry gives you two important things necessary for the successful use of this new gain-booster:



1. **Good supplements to help guarantee the extra gains 'Stilbosol' is capable of producing.**
2. **The technical facilities to properly mix small amounts of 'Stilbosol' in large amounts of bulky feeds.**

If you are not yet using 'Stilbosol'-fortified supplements, talk it over with your feed supplier. Ask him to show you what his supplements with 'Stilbosol' have meant to his customers who marketed 'Stilbosol'-fed cattle this past year. He can show you the advantages of feeding 'Stilbosol' to get more beef at less cost and, in that way, help you increase your beef feeding profits.

'Stilbosol' is Eli Lilly and Company's trademark for Diethylstilbestrol Premix. 'Stilbosol' is the only such premix compounded under license from the Iowa State College Research Foundation, Inc.

Stilbosol

(Diethylstilbestrol Premix, Lilly)

Lilly

ELI LILLY AND COMPANY, AGRICULTURAL PRODUCTS DIVISION, INDIANAPOLIS 6, INDIANA

For sore, aching muscles—

An old New England Remedy

Nobody has ever been able to duplicate

Before the turn of the century, a New Englander searched for a pleasant, effective way to relieve one of man's most common ailments—*the searing aches and pain that overexertion inflicts on muscles.*

He discovered that a special blend of oils and tinctures rubbed upon the afflicted areas brought unbelievable relief.

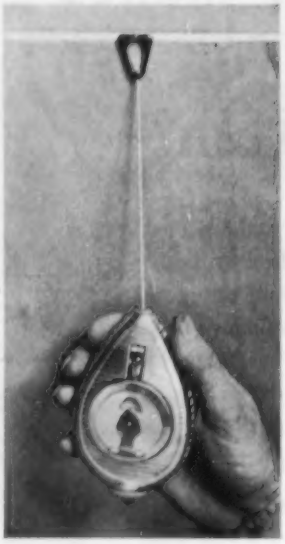
Soon, through all New England—then across the country—this New Englander's special formula stood by in millions of medicine cabinets to bring blessed relief.

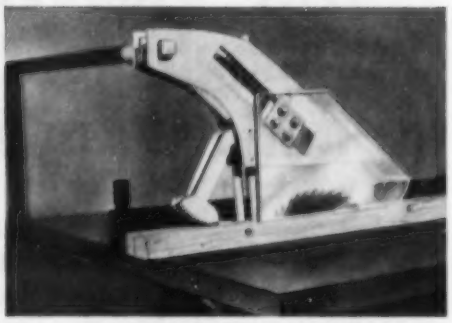
Americans today, bound to desk or shop all week, get their exercise on weekends only. And muscles, after occasional weekend workouts, suffer!

But in this modern day, an old New England remedy is theirs to rely upon. Its special blend has never been duplicated by newer products. It has brought its unmatched relief to millions, continuously since 1894.

This famous product is Absorbine Jr. If you would like to get quick relief from your own muscle aches and pains, buy Absorbine Jr. today wherever drugs are sold. *W. F. Young, Inc., Springfield, Mass.*

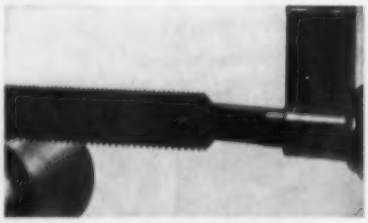
What's new in tools





Transparent guard for circular saw does not require removal during cut off, ripping, dado, and grooving work. Made by General Scientific Equip. Co., 2700 W. Huntingdon St., Philadelphia 32, Pa.

Chalk line-plumb bob, self-chalking, has refill cap for use as plumb bob. Slide-action brake holds line. Hook allows one-man operation. Evans Rule Co., 400 Trumbull St., Elizabeth, N. J.

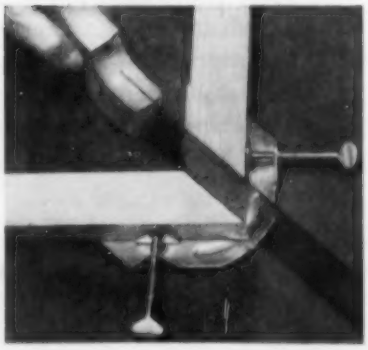


Double-edge hacksaw blade has 18 teeth per inch on one side for cutting heavy metal, 24 teeth per inch on other. It's sold by John H. Graham and Co. Inc., 105 Duane St., New York 8, N.Y.

New pipe wrench is of tubular construction, equipped with spring-loaded jaw so one adjustment fits different pipe sizes. Write Stilsomatic Sales Corp., 1100 20th St., Washington 6, D. C.

Stripped-thread repair kit lets you replace threads without enlarging stud or bolt size. Inserts are screwed into metal, wood, plastics with tool. More information—Heli-Coil Corp., Danbury, Conn.

A corner clamp with a channel feature enables you to use a saw to correct miter-cut errors. It has 2″ capacity, 2 thumb screws. Made by Gunver Mfg. Co., 234 Hartford Rd., Manchester, Conn.



Here's a LOW-COST Forage Harvester for Standing Hay . . . Windrowed Crops

The No. 10 chopping standing alfalfa and clover.

Making bedding of cornstalks with the new No. 10.

It's a Profit-Maker All Around the Farm

Dollar for dollar, the versatile new John Deere No. 10 Rotary Chopper may well be the best investment you've ever made. This big-capacity, low-cost chopper harvests standing hay, windrowed hay, and beet tops . . . handles many other jobs all around the farm.

Brings Pasture to Cow

For feeders and dairymen, the profit-making John Deere No. 10 brings the pasture to the cow *at low cost*—fresh, nutritious, tasty—without waste. Combined with a trench or bunker silo, the No. 10 furnishes top feed at rock-bottom costs.

For beet growers, the No. 10 solves two problems: *first,* it tops beets and chops the tops into clean, high-quality silage and *second,* it makes the beet harvester's job much easier.

Many Other Uses

Every farmer can find other profitable uses for the No. 10 Chopper. It makes bedding of straw and cornstalks . . . chops, shreds, and spreads cornstalks, brush, orchard and vineyard prunings . . . clips pastures . . . and handles other jobs.

The new John Deere No. 10 is an extremely simple, rugged, offset chopper with a full 5-foot cut. It consists of a rotor with four rows of 8 curved, free-swinging knives that cut and lift material into a big-capacity auger, where it's quickly moved to a blower and into the wagon or truck.

See your John Deere dealer. Mail coupon below for free literature.

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Town _____

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JOHN DEERE
MOLINE, ILLINOIS

SEE YOUR JOHN DEERE DEALER

Tampax facts...

add

to your poise when it's "time-of-the-month" for you. Use Tampax internal sanitary protection. It's completely invisible when in place; you have no fears of telltale bulges or edge-lines. And even your uncertainty about the possibility of odor vanishes. Tampax positively prevents odor from forming!

subtract

from your discomfort—Tampax eliminates the chafing pad, the binding belt. In fact, Tampax is so comfortable that you can't even feel you're wearing it! Yet though it's only 1/9 the size of an external pad, it's even *more* absorbent! You always feel *secure* with Tampax.

multiply

your activities. With Tampax, you're even apt to forget there's a difference in days of the month. Unlike any other kind of sanitary protection, it can be worn in shower or tub. Disposal is easy. Your choice of 3 absorbencies (Regular, Super, Junior) at drug or notion counters. Month's supply goes into purse. Tampax Incorporated, Palmer, Mass.

Invented by a doctor—now used by millions of women

See what the finishing touches can do!

It's the little things that make the big difference in a room. Pictures, flowers, books, and other accessories are as important to a room as the furniture, floor covering, and draperies. Bare walls make a room cold and unwelcome looking.

And, never be afraid that a small picture hook will hurt those newly painted or plastered walls. Once you've hung a group of pictures, you'll wonder why you ever hesitated to drive the nail that hung them.

Inexpensive touches like toss pillows on the sofa; a plant on a table, or on a cabinet, together with ashtrays, and books, all go into making a room complete. Look around your own home. Is it well accessorized? If not, then make some changes today.

Before: Bare walls and tables make this room look like no one lives here. The walls may be a pretty color, sofa comfortable, and tables the right size, but they're like a face with no make-up or a dress with no jewelry.

The room lacks the personal touches that show a family's interests and personality.

After: But see what a few changes made. A group of different size pictures over sofa take away the bare look of the wall. Notice the grouping is large enough to fill the area over the sofa.

Toss pillows in bright colors make the sofa come to life. The coffee table no longer looks bare, but has accessories such as ashtray, cigarette box, magazine, and flowers.

Photographs: Hopkins

advance showing

OF THE NEW SMARTSET GROUP

SOFA AS SHOWN **$139.50** Now on sale at Kroehler Dealers from coast to coast

CHAIR $79.50

THE LOOK OF TOMORROW...

at money-saving prices today!

Living room need a lift? Here's your opportunity to bring a fresh new outlook into your home—at a price that won't even ruffle your budget! A value made possible only by advanced new manufacturing methods in the huge Kroehler factories—bringing this thrilling new-look furniture to you, actually weeks ahead of the normal spring showing dates!

See—select and SAVE now! Newest fashions in "Smartset" textured fabrics in a variety of exciting new colors. Ask your dealer about low monthly payment terms—buy now!

Also available in group: Twin sofa with arm, right or left, $99.50. Open-end twin sofa, right or left, $110.00. Quarter-circle, $130.00. Prices slightly higher in some areas. Foam rubber cushions at extra cost.

the new Smartset group by

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(pronounced KRAY-ler)

WORLD'S LARGEST FURNITURE MANUFACTURER

General Offices: Chicago 11, Illinois. In Canada: Stratford, Ontario

Get Gambles BIG TRADE-IN ALLOWANCE on these 1956 CORONADO Washers and Dryers!

Gambles best!

"CUSTOM DELUXE"

automatic laundry twins!

Wash and dry up to 9 lbs. of clothing in minutes with these porcelain-finish CORONADO laundry twins. *Washer's* weigh-fill action automatically starts washing cycle. 4-vane agitator draws out even stubborn dirt. Sediment trap catches it. Has timer with signal tone. *Electric dryer* offers push-button temperature control, inside light, ultra violet lamp.

WASHER $299.95 *Less trade-in*

DRYER $199.95 *Less trade-in*

No money down if trade-in equals 5%. Balance on easy terms.

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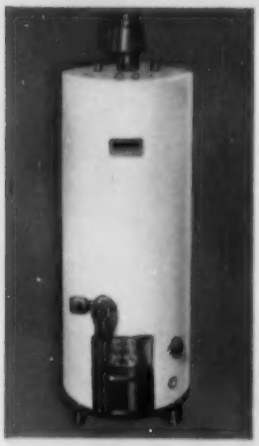
(45-1446)



CORONADO WATER HEATERS GUARANTEED 10 FULL YEARS!

Have hot water whenever you want! 30 gal. gas heater with foolproof "Torrid Temp" burner delivers most hot water on least fuel. Heavy fiberglas insulation, 100% safety shut-off thermostat. AGA approved. Natural or bottle gas models . . . $109.95 value now just

$7.88 down, $1.75 per week, payable monthly. **$78.88** (47-1065-6)

32 Gal. Electric Water Heater, galvanized tank. $141.95 value, $98.88

$9.88 down, $2.00 per week, payable monthly.

(B47-2070)

Washer-Dryer combination at Gambles lowest price ever!

Real beauties — efficient, too! CORONADO "Super Deluxe" washer is fully automatic. Holds up to 9 lbs. of dry clothes, has porcelain-finish spin tub. 4-vane agitator for fast, thorough cleaning. Automatic dryer comes with interior light, door-switch starter, push-button temperature selector. Lint trap, smooth finish drum.

Washer $249.95 Less trade-in **Dryer $189.95** Less trade-in

No money down if trade-in equals 5%. Balance on easy terms.

(45-7000) (45-1438)

Save on new CORONADO semi-automatic washer with Lovell safety wringer!

A big washer at a big saving! CORONADO "Custom Deluxe" washer features automatic timer, waist-high control panel, 10 lb. load capacity. Balloon-type Lovell wringer has instinctive safety release. Comes in gleaming 2-tone white, green finish. Your price at Gambles

$179.95

Less trade-in

No money down if trade-in equals 5%. $2.13 per week, payable monthly.

(45-7074)

BIG SAVING! Gambles CORONADO "Super Deluxe" washer has generous 9 lb. dry load capacity, famous Lovell balloon-type wringer, 3-vane agitator and beautiful baked enamel finish.

Just **$129.95** Less trade-in

No money down if trade-in equals 5%. $1.75 per week, payable monthly.

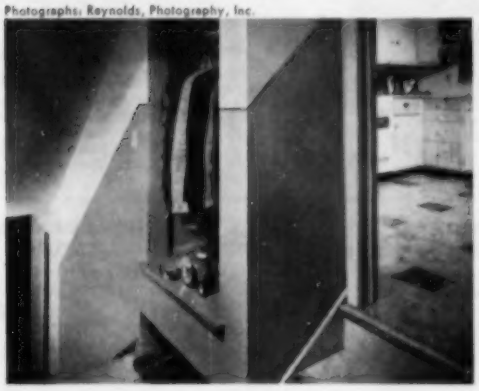
(45-7815)

A farm-centered kitchen

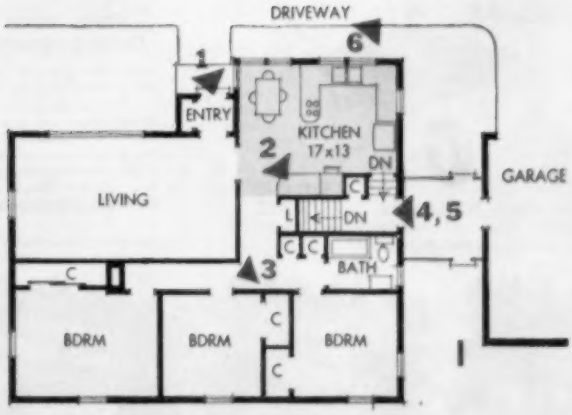
Left corner window looks out on highway and drive into Ende farm. Mrs. Ende put wall cabinets above island to make up for storage lost from expanse of windows. Island has pass-through to dining area

Count the windows at left and above—you'll find six. They're spaced to give Mrs. Ende full view of farming activities. Extra window left of refrigerator gives view of main farm buildings. Planter, resting on cabinet, fills space between the sill and base cabinet. There's no extra walking here

Photographs: Reynolds, Photography, Inc.



◀ Closet for work clothes is always handy—no doors to open because of its in-hiding location. Floor-level cubbyhole for boots is easily cleaned with vacuum cleaner. Wash-up area is at foot of basement steps



By Nancy Lusk

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5. A wash-up area near the rear door. The Endes located theirs at the bottom of the basement steps.

6. A view of farm buildings and drive from kitchen. Kitchen has 6 windows for a 3-directional view of farm.

Gambles Nationa

SAVE OVER $40 ON GAMBLES CORONADO "SPACE SAVER" GAS RANGE!

Here it is at a special low price! Gambles "Space Saver" takes only 30" of floor space. Has 4 top burners, fluorescent light, electric clock and timer, 2 outlets, gleaming porcelain enamel finish . . . plus giant-size oven with see-in glass door.

$159.95 value, pay just . . .

$118.88

No money down if trade-in equals 5%. $1.63 per week, payable monthly.

(47-0637)

(B5-410)

TRUCK-TRACTOR BATTERY GUARANTEED 2 FULL YEARS!

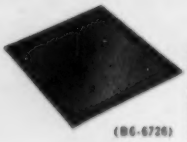
Power - packed value! Varcon features bonded glass separators, hard rubber case. 45 heavy-duty plates give 100 amp. hr. capacity. **$12.95** Gr. 1 Exchange

VARCON CAR BATTERIES as low as $7.95 Gr. 1 Exchange

5" ROUND TRUCK MIRROR, black finish, telescoping arm. $2.95 value. **$1.89** (A6-7032)

3 TINE FLORAL CULTIVATOR. Has 4' hardwood handle. $2.49 value. **$1.89** (A35-1212)

STALWART STEEL BOW RAKE, 5' solid ash handle; 14 teeth. $2.39 value. **$1.79** (B36-7254)



14"x17" UTILITY MAT

For home or car. Waffle design traps moisture, dirt for easy cleaning. Black. Regularly 49¢ Now..... **33¢**

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FOAM RUBBER TRACTOR-CUSHION

King size. Heavy-duty plastic-coated cover. Fits all bucket seats..... **$3.79** $5.95 value.

(B38-2258)

POWER-STOP BRAKE FLUID

Mixes with other brake fluids, non-evaporating. Harmless to brake parts. 12 oz. can.... **89¢**

(B6-5151)

HANGING CHICK FEEDER

Heavy galvanized steel. 25 lb. feed capacity. Adjustable flow. Removable feed pan..... **$2.59**

(B38-2840)

2 GAL. POULTRY FOUNTAIN

Heavy galvanized steel. Removable snap-on rolled-edge base. $1.79 value. ONLY..... **$1.19**

B38-3645

ENGINE-OPERATED AIR PUMP

Has 4 adapters to fit most spark plug holes. With 12 ft. of hose..... **$3.89** With gauge $5.69

(A6-8029) (8030)

"WEED-O-MATIC"
Lowest priced "weed control type" electric fencer on the market!

110V Farmcrest "Weed-O-Matic" electric fence controller prevents shorts by killing weeds on contact. 1 yr. warranty, even against lightning damage, high line power surges. Flashing signal light. $24.95 value. $1.95 down. Only..... **$18.95**

B30-3240

"H" STYLE ELECTRIC FENCE POSTS ⅜" Tuf-steel rod, 48" high. Rust-proof finish. Ea. **39¢**

(B39-6108)

"HANDYMAN" WHEELBARROW

(B38-9710)

ONLY **$9.95**

Light weight, big capacity. Seamless steel tray, tubular frame. Jumbo tire. Baked enamel finish.

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Learn how you can operate a store of your own . . . earn good profits . . . benefit from our proven selling techniques. Write for details now to: Dept. 585F, Gamble-Skogmo, Inc., 15 No. 8th Street, Minneapolis 3, Minnesota.

RED PLASTIC DISH PAN Regularly $1.98 **$1.19** (B10-0210)

3" VEGETABLE BRUSH Regularly 14¢ **9¢** (B10-1201)

NYLON GEAR EGG BEATER $2.95 Value **$1.88** (B10-4415)

STAINLESS STEEL TEASPOON Regularly 15¢ **9¢** (B10-7355)

GARDEN SPADING FORK $3.25 Value **$2.98** (B36-9311)

nal March Sale!

FARM SPECIAL OF THE MONTH

FREE

NON-BREAKABLE
48 OZ. PLASTIC
79¢ VALUE

JUICE CONTAINER

with purchase of 3 boxes of 6½"

ELGRADE MILK FILTER DISCS

69¢

PER BOX
3 BOXES FOR $2.07

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(B36-5539)

19" ROTARY MOWER FOR ONLY $89.95

You'd expect to pay much more for Gambles 1¾ H.P. "Sabre" rotary mower with leaf mulcher. Has automatic recoil starter, long-lasting steel cutting blade, adjustable cut from 1" to 3". Powerful 4-cycle engine. Side trim and discharge. A great value!

$8.95 Down, $1.75 per week. Payable monthly.

(B36-5505)

SELF-PROPELLED 21" "ARTISAN" ROTARY MOWER

New for 1956! Powerful 2½ H.P., 4-cycle engine with recoil starter cuts toughest weeds or grooms finest lawn. Clutch and throttle on handle. Close side trim feature eliminates hand trimming. With leaf mulcher.

$11.95 Down, $2.25 per week. Payable monthly. **$119.95**

OTHER POWER MOWERS AS LOW AS $59.95

(B6-2505)

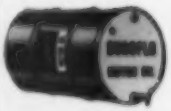
TRAILER COUPLER CLAMP

Heavy-duty steel clamp holds trailer coupler tight to any car bumper... **$1.98**

VARCON MULTI-SERVICE GREASE

Contains "Lithium" Does work of 5 ordinary greases! 1 lb. can..... **27¢**

(B4-1617) (1618) 5 lbs. $1.19



(A4-4000-3)

DUROFLO MOTOR OIL

Quality lubrication at low cost! Refined from select crudes. SAE 10-40. In your container. Per gal..... *Tax Paid* **71¢**

(A6-0045)

TRACTOR STEERING WHEEL SPINNER

Free-turning hardwood handle, rust-resistant steel shaft and base..... **75¢**

(B7-7070, 7095)

VARCON SPARK PLUGS

"Dual Fire" plugs give faster starts, last longer. Guaranteed $1.25 value. Each, in sets of 4 or more. Now only.... **75¢** ea.

Others as low as 39¢ each

(B6-2154)

"DUAL FLOW" OIL REFILL

Cleans oil better because it cleans it twice! Fits Ford, Mercury, Fram F4. In lots of 3 or more, each **$1.35**

Other Filters as low as 39¢

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Prices slightly higher west of the Mississippi. If you don't know location of your nearest Gamble Store write: Dept. MG-31, Gamble-Skogmo, Inc., 15 No. 8th St., Minneapolis 3, Minnesota.

Ask to see a copy of our new SPRING-SUMMER DISCOUNT CATALOG! Contains thousands of items at SAVINGS UP TO **40%**

Gambles
The Friendly Store

NOTICE: All merchandise subject to stock on hand. We reserve the right to limit quantities. All prices subject to change without notice.

RK

(B36-5511)

WIRE TOOTH LAWN BROOM
75¢ Value **55¢**
(B36-7264)

"EXPERT" LAWN SEED
75¢ Value
59¢ per lb.
(B36-0010)

STURDY GARDEN HOE
$1.89 Value
$1.19
(B36-0517)

12" x 14" CHAMOIS
Regularly 89¢
69¢
(S-1000)

GALV. CHICK FOUNTAIN BASE
11¢ Value, each
2 for 15¢
(B30-0520)

A farm-centered kitchen

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Count the windows at left and above—you'll find six. They're spaced to give Mrs. Ende full view of farming activities. Extra window left of refrigerator gives view of main farm buildings. Planter, resting on cabinet, fills space between the sill and base cabinet. There's no extra walking here

Photographs: Reynolds, Photography, Inc.

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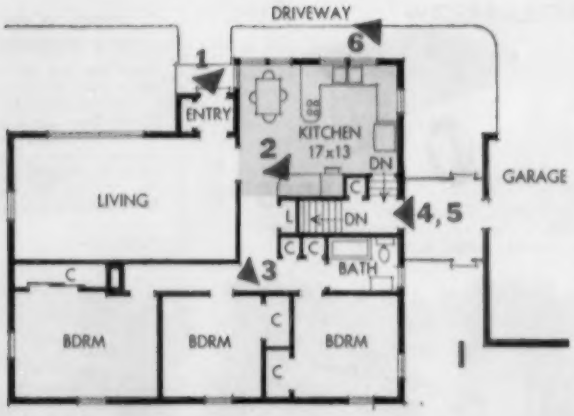
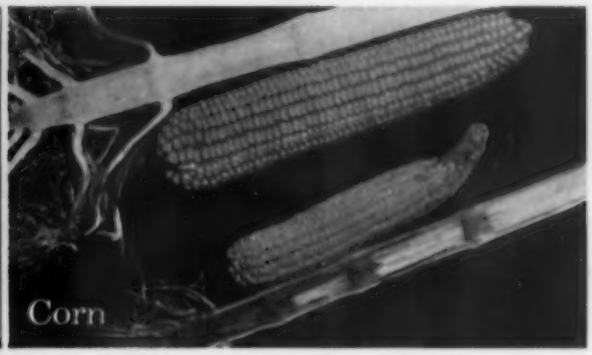
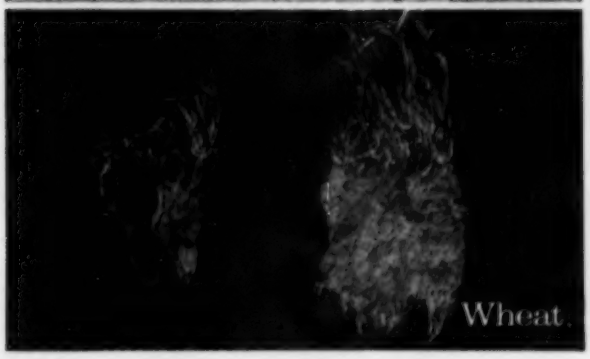




You're dollar-foolish to skimp on

potash



***Not enough* POTASH takes the profit out of any crop**

Startling as these comparisons are, most farmers still don't supply their *hungry* crops *enough* Potash. Those who keep a close check on unit costs of production know the value of Potash. *Without* Potash—there will be *no* growth. Without *enough* Potash, the quality element in your fertilizer, you will not get the best quality, yield or profit. Unit costs will actually increase. Your local agricultural adviser will help determine correct amounts for your soil. Remember, a *low* Potash level means a *low* income level. Insist on *enough* Potash.

SEND FOR THIS FREE BOOKLET

It explains the necessity for potash in the profitable production of all crops. For your free copy write to address below.

K_2O *Symbol for yield . . . quality . . . profit*

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MEMBER COMPANIES: American Potash & Chemical Corporation • Duval Sulphur & Potash Company • Potash Company of America • Southwest Potash Corporation • United States Potash Company

All around

Here are some tips to help you save time, steps, space, work

● After patching a sheet or pillow case, mark a corner with colored thread. When company comes you can quickly tell mended linens from good ones without unfolding the whole stack.—*Mrs. Ursa Ward, Iowa.*

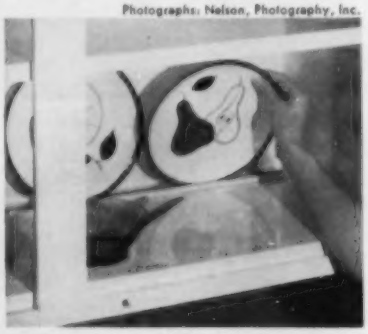
● When a youngster balks at wearing a baby bib, tie a red bandanna around his neck. Convinced that he's a buckaroo, he will bend over backwards to cooperate!—*Mrs. E. Carlson, Minnesota.*

● Don't waste costly time on long distance calls by "hemming and hawing." Before a call is placed, list the important things to be said.—*Mrs. R. C. Mick, West Virginia.*

● My venetian blinds get a thorough dousing in the bathtub. Taking one blind at a time, I wash each one in detergent suds applied with a sponge. I stand the blind on end and pour warm water through it to rinse. Absorb the "drip" in a towel, and hang the blind while tapes are still wet. After being hung, the blind is dried with long strokes of a sponge—the slats first in up position, then reversed.—*Mrs. David Ekstrom, Nebraska.*

● A section of flat curtain rod (with the curved ends cut off) can be fastened to

Photographs: Nelson, Photography, Inc.



a cupboard shelf to form a plate rail.—*Mrs. Joe Ulesich, Jr., Wisconsin.*

● Keep a roll of cellulose tape in the car at all times to be sure you always arrive at your destination well groomed. A small rip or a loose hem can be temporarily repaired with tape. And a strip of tape—with sticky side out—wrapped around the hand, will do a thorough job of whisking lint and dust from your hat brim and suit collar.—*Miss Elizabeth Crowe, California.*

● In using a knife, always cut *away* from yourself. You probably *know* this simple safety rule—but do you observe it?—*Mrs. George Ebsen, Nebraska.*

● Keep a plastic scoop in your large container of laundry detergent. No need to lift the big container—and you wash more efficiently and economically using a correct measure.—*Mrs. Keith Kolbow, New York.*

the house®

● Ever wonder how to keep a batch of bread dough cozy on a chilly spring day? Try your electric heating pad!—*Mrs. Hans Sukstorf, North Dakota.*

● To dust venetian blinds, I use a pair of men's work gloves—the soft orange flannel kind. Using both hands, dusting is fast.—*Mrs. Clarence Schultz, Minnesota.*

● Babies' vitamin drops come in a type of bottle that's perfect for oiling household appliances. When the vitamins are used

up, just fill the bottle with lightweight machine lubricating oil and then place a label on it.—*Mrs. Norris O. Braaten, North Dakota.*

● One of my big timesavers is keeping dry bread or cracker crumbs on hand in my freezer.—*Mrs. Frederick Bell, Illinois.*

● Don't put off magazine-sorting for house-cleaning time. Each time you finish reading a magazine, turn down one of the corners of the cover. If articles are to be torn out later, write the page numbers on the front cover for speedy clipping at a later, more convenient time. —*Miss Catherine Miller, Pennsylvania.*

● Our kitchen blackboard is our "efficiency engineer." Children's and husband's tasks listed there have a way of getting done promptly with a minimum of grumbling. And, I find I get more done when I have a list planned for the day. It helps all of us to be more considerate, too—noting our whereabouts if one of us is away, reporting telephone calls, and so forth.—*Mrs. E. Haegele, Iowa.*

● Have you kept your "wardrobe" of pans up to date with your gas or electric range? For best cooking—without wasting heat or damaging the finish of your range—utensils should be about the same size as the unit or burner. For nearly all cooking, tight covers should be used to conserve food value, shorten cooking time—and to prevent excess soiling of the house.—*Mrs. James McCaffrey, California.*

Successful Farming pays $5 for each original helpful hint published. We do not accept previously published suggestions or return unused ones.—Editors

Now—a vacuum cleaner you never have to lift!

It rolls anywhere easily—even up and down stairs—on its smooth-running, 12-inch wheels!

It's powered to clean every room efficiently and easily. The exclusive 2-in-1 cleaning unit lets you clean both rugs and floors without ever changing attachments.

See it at your G-E dealer's. Vacuum Cleaner Dept., Housewares and Radio Receiver Division, General Electric Company, Bridgeport 2, Connecticut.

It's entirely new and different!

ROLL-EASY
VACUUM CLEANER

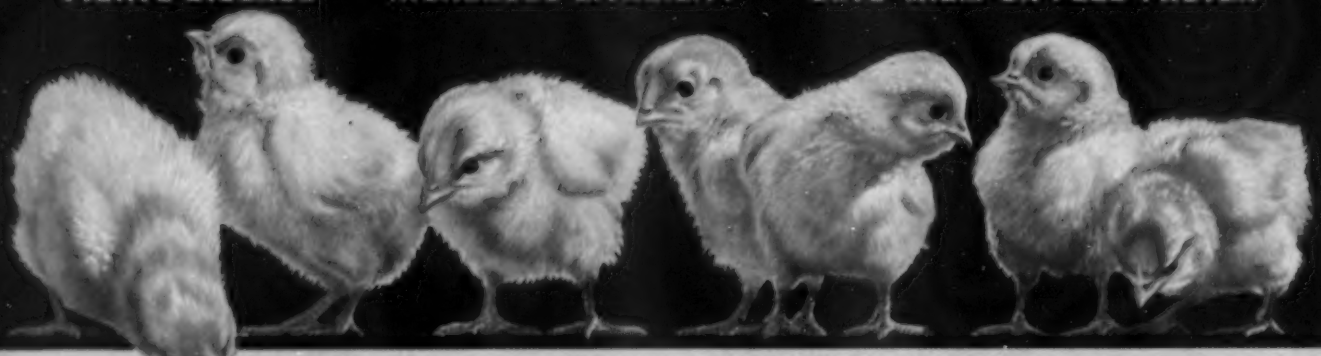
*Manufacturer's recommended retail or Fair Trade price

Progress Is Our Most Important Product

GENERAL ELECTRIC

Now -
For Healthier Chicks and Poults

FIGHTS DISEASE INCREASES LIVABILITY GETS THEM ON FEED FASTER



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POULTRY FORMULA *POWDER*

Lederle's newest contribution to the great poultry industry—AUREOMYCIN POULTRY FORMULA—provides poultrymen with a dependable, lower-cost weapon against disease losses. For higher profits just mix AUREOMYCIN POULTRY FORMULA in the feed or drinking water to help:

★ stimulate feed intake ★ maintain weight gains ★ fight CRD and blue comb in chickens
★ fight hexamitiasis, sinusitis and blue comb in turkeys ★ get them on feed faster
★ reduce early mortality of baby chicks and poults

Start building better poultry profits today! Get your supply of the new AUREOMYCIN POULTRY FORMULA from your druggist, feed store or hatchery.

Available in 1.6 oz. (50 Gm.) ½ lb. and 10 lb. packages.

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AMERICAN CYANAMID COMPANY
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CHLORTETRACYCLINE

Automatic range feeding

By William Gilman

Even for the flock of only 1,150 birds, Clark Norton, Rutland County, Vermont, finds bulk delivery of mash pays when it's combined with his homemade adaptation of indoor automatic feeding to outdoors. It adds up to many savings—and all for only $55 in materials.

Most expensive was $35 in materials for the mash-storage bin. For weather resistance, it's made of galvanized sheets and holds over 3 tons. The wooden hopper underneath spills mash onto the chain conveyer which holds another 400 pounds. Chain and sprockets were a gristmill's discards, and are powered by an old ½-hp motor. Feeder is 90 feet long, feed moves 2 feet per second.

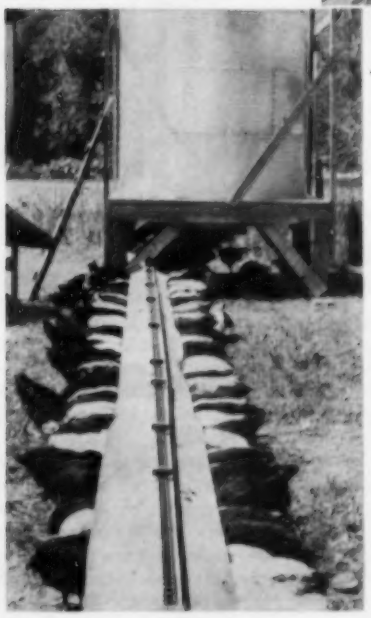
Through bulk delivery, Norton figures he saves about $2 per ton. Both poultry and dairy feed are delivered by the same bulk-delivery truck. Unloading is done by deliveryman's auger.

Doing away with range feeding by hand has meant no hired man needed there. Norton, or his wife, can start the feed going by simply plugging in the motor.

Photographs: Author

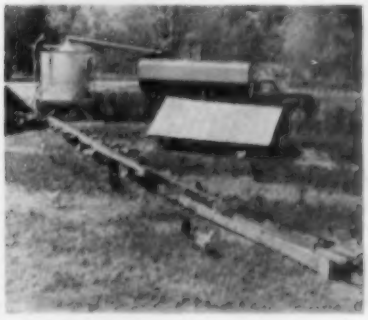
Power plant for Norton's automatic feeding system is located beneath the feed storage bin. He uses a ½-hp electric motor to drag conveyer chain at a speed of 2 feet per second. Part of his gear reduction mechanism is an old motorcycle wheel. Plugging in the motor cable sets the system in operation, doing the work of one man.

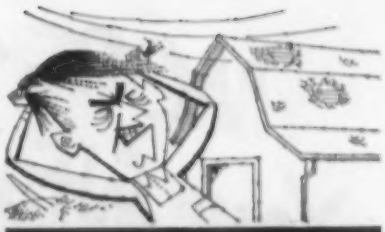
This is the input end of his range-feed conveyer. Mash falls out of metal bin, through wooden chute to chain.

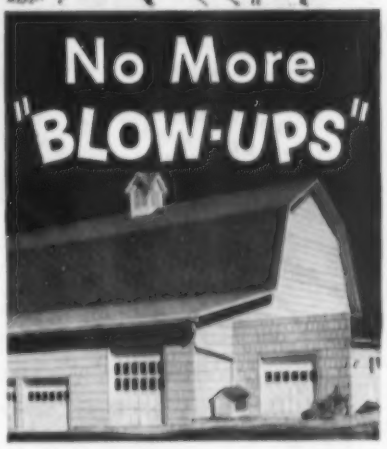


◀ Feed is delivered to feeder by a No. 45 implement chain shown here returning empty above trough to feed outlet at bin. Wooden blocks attached to chain help push feed

A bulk delivery truck fills the storage bin once a month. There's no carrying bags when truck arrives. Hopper is 90' long. Part of roof has been removed to show details







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Meat-type beef

From page 55

older cattle tend to have more muscling, as is indicated by Lot 5. In fact these thinner cattle would probably meet the demand of the average homemaker better than the fatter cattle.

Yes, there is a meat-type steer. We don't know yet all of his external characteristics but we do know that our standards of type have not been too far off.

There are some things, though, that maybe we have overlooked. In my opinion a meaty steer does not have an extremely soft finish. On the other hand, it isn't an over-fat, hard finish—but the flesh is firm. Your hand when placed on a meat steer does not sink away.

A meat steer has a smooth finish and good quality, medium to light bone. He may be tight hided, a little cut up in flank, but he has to have a bulginess in his muscling. Well-muscled cattle are reasonably deep bodied. Length of body has little to do with the size of loin eye, but could influence the yield.

The variation in rib eye size is more important than the fat—over-fat cattle are easy to identify and we can hold down the finish by feeding. Our big job is to improve our technique for selecting cattle that breed natural fleshing. I think it can be done. END

New orchard laborsaver

This mechanical "squirrel", so called because of its agility in getting an operator into fruit trees for pruning and care of trees, is demonstrated by Fred Baehre, near Sparta, Michigan.

At operator's direction in the cage, the self-propelled platform can be moved up or down, around the tree, by means of easily reached controls. Pneumatic power is handy for operating saw and shears. This unit is estimated to help reduce pruning time to one-fourth.

New Ful-O-Pep Chick Starter boosts chick growth 15%

Extra growth power starts baby chicks fast

It's the latest triumph of Ful-O-Pep Reasearch — new, nutritious Ful-O-Pep Chick Starter! ...*the best Ful-O-Pep* ever built for life and growth. This year, your baby chicks fed the new Ful-O-Pep way may grow 15-20% faster than chicks grown on last year's plan . . . for new 1956 Ful-O-Pep Chick Starter is really loaded with GROWTH POWER!

Added life protection keeps mortality low

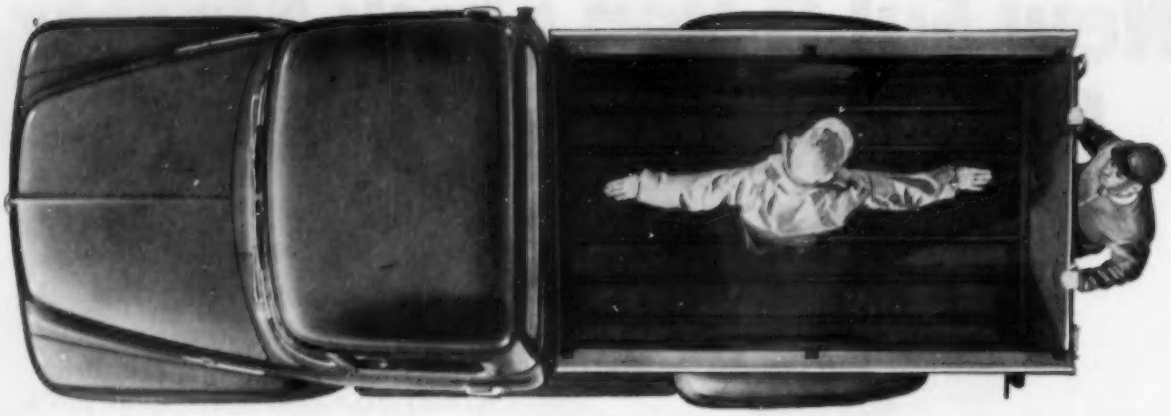
You see, Ful-O-Pep Chick Starter is built around oatmeal . . . and oatmeal gives chicks more energy, *more growth power* than any other cereal grain. There's added life protection, too . . . for 1956 Ful-O-Pep is fortified with Concentrated Spring Range* — Nature's Richest Vitamin Boost — plus Vitamin B_{12}, antibiotics and other *nutrients vital to chick health*. Many poultrymen report 98% to 100% chick livability.

*REG. U. S. PAT. OFF.

Your chicks get only the nutrients you pay for

There's a scientific nutritional difference between high-quality chick starters and "bargain" brands that is vital to the *growth and development* of your chicks. Since only 2 lbs. per chick is needed, don't short-change your baby chicks. Feed new high-quality Ful-O-Pep Chick Starter to *boost health and growth*. Remember, your chicks get only the nutrients you pay for.

Buy with complete confidence from your Ful-O-Pep Dealer



Any way you look at it—
Ford gives you the most

Most Power! New '56 Ford gives you more horsepower per dollar than any other Pickup truck. Choice of 167-hp. Y-8 or 133-hp. Six, both Short Stroke.

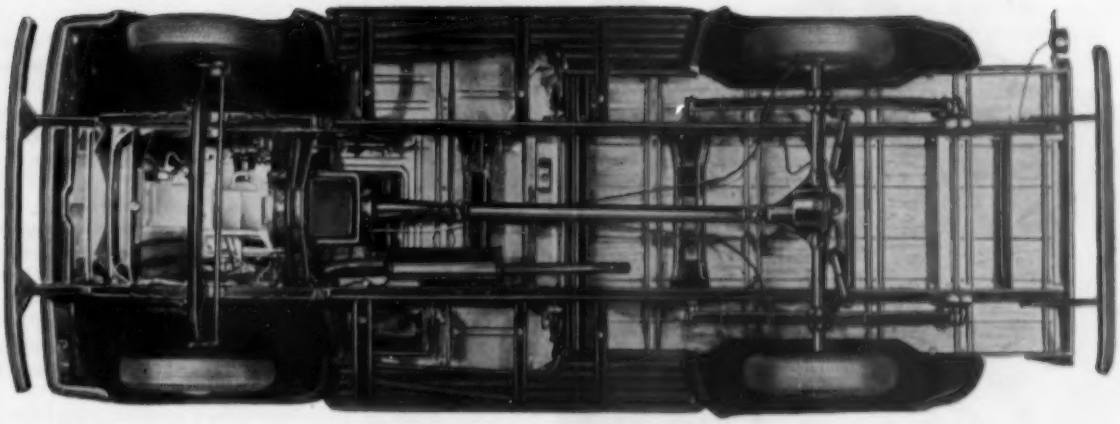
Most Capacity! Biggest box in the half-ton field! New Ford 8-ft. box on 118-in. wheel base (optional at small extra cost) offers up to 19 cu. ft. more capacity than other half-ton Pickups.

Most Safety Features! Only Ford Trucks offer a Lifeguard steering wheel and Lifeguard door latches (standard equipment). Seat belts are also available at low, extra cost.

Most Comfort! New cab! It's DRIVERIZED! Only Ford has it! New wrap-around windshield with built-in visor. Exclusive seat shock snubbers . . . Custom Cab (available at worth-while extra cost) has 14 luxury features including 5-inch foam rubber seats.

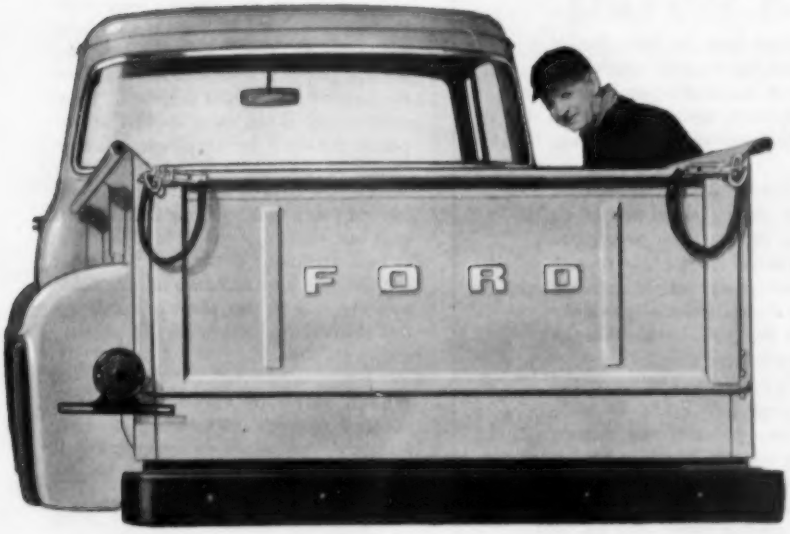
Compare it! Compare it with *any* other Pickup, and you'll see why you get the most Pickup truck for your money in a new Ford for '56.

Compare *power* and *capacity*. You'll find the new Ford Pickup gives you more horsepower per dollar than any other Pickup (based on comparison of net horsepower with suggested list price). Ford's new



Bird's-eye view (left) shows the extra capacity you get in the new 8-ft. box now available on Ford half-ton trucks. *Worm's-eye view* (above) shows the rugged truck construction throughout, with wide-tread front axle, rugged parallel rail frame, tubular-type drive line and husky hypoid rear axle.

Pickup truck for your money



8-ft. box offers more cu.-ft. capacity than any other Pickup in the 5,000-lb. G.V.W. class (6½-ft. Pickup box standard on 110-in. wheel base).

Compare *safety* and *comfort*. Ford gives you Lifeguard safety features available in no other truck. For comfort, the new Ford cab is in a class by itself. It's DRIVERIZED! Only Ford has it!

Only Ford gives you Lifeguard Safety Features!

New Deep-Center Lifeguard steering wheel helps protect driver from the steering column.

New Lifeguard latches for doors add protection against doors jarring open on impact.

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'56 Ford Economy Trucks

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That's why you can't afford to store it in less than the best. Butler grain bins keep your crops in top condition for highest prices and better feed and seed. Long, double-bolted, moisture-proof body sheets, easy-to-use strip-type caulking compound, tight-sealing door, all these seal out weather and pests, help keep your grain clean, bright and dry.

While your grain is in storage, Butler Force-Aire equipment for natural air drying maintains grade by cooling, drying from prescribed maximum moisture content to safe storage levels, and controlling insect activity. Circulates air evenly throughout the grain—either through ducts or perforated floor.

Butler batch drying bin and heated air crop dryer let you harvest earlier, cut field losses by as much as 10 bushels an acre, and handle high-moisture grain safely. Available in 300 or 600-bushel capacities, portable if desired.

You're in complete control of the value of your own grain. In addition, you pay yourself the storage and drying charges. You can hold it and be assured of getting the government support price, or sell it when the market price goes up.

To learn more about why Butler grain bins outsell all other makes, write the office nearest you for full information.

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Soil insects

From page 56

plowing. The freshly applied material must be disced immediately to avoid some loss of the insecticide into the air. Over-all treatments can also be made by spreading dry granules of the insecticide. Or a fertilizer-insecticide mixture can be applied broadcast.

Seed corn treatment usually means mixing 2 ounces of dry 50 percent heptachlor or dieldrin powder or an equivalent with each bushel of seed. This can be done in a tub or even in the seed box as has been done using lindane for the past 6 or 7 years. The seed box method is being discouraged because of poorer coverage of the seed.

Some hybrid corn companies are now treating with soil insecticides before bagging the seed. A few more are selling or giving away the dust and letting you treat the seed yourself at planting time.

Row treatment important. An important variation of the seed and soil treatment methods is row fertilizer mixed with aldrin or heptachlor. This has been the most widely used soil treatment to date and is well known. One-half to one pound of insecticide is usually applied per acre this way which saves money. The cost is around $1.50 per acre, against $2.50 to $4.00 for aldrin or heptachlor broadcast. But the broadcast may be cheaper in the long run because of its carryover. The effect will last two years and maybe up to 4 or 5. In the now-famous Iowa State College tests on the Howard Waters farm near Danville, Iowa, the soil insecticides are still giving a 20-bushel increase over the untreated the third crop year. Heptachlor and aldrin were applied at one pound per acre—before plowing—in the spring of '53. There is little carryover from a row treatment but this may not interest you if you leave the field in corn only one year.

Two variations of the row treatment are spraying narrow bands of insecticide over the row as you plant or using the dry granule attachment on the planter, shown on page 56.

Wheat, sorghum saved. Soil insects that destroy seeds and seedlings of wheat and sorghums can also be controlled with soil insecticides.

White grubs and false wireworms have destroyed literally thousands of acres of seeded wheat in Kansas. Similar, though less extensive, losses have been reported in Oklahoma, Nebraska and the Dakotas.

C. C. Burkhardt of Kansas State College found that aldrin at two ounces per 100 pounds of wheat gave virtually complete control of false wireworms. Worms have been seen streaming out of the ground the day after wheat treated with aldrin has been seeded. Burkhardt thinks treating seed wheat and sorghum with aldrin, heptachlor or dieldrin should be routine "when there is the least indication that false wireworms may be a prob-

lem." The cost will run from 15 to 45 cents an acre depending on the insecticide used and the seeding rate.

A good way to treat seed is to put it and the chemical in a barrel and roll the barrel. Kansas tests have shown that wheat seed can be treated and stored as long as six months without reducing its germination.

Kansas entomologists suggest that farmers try one pound of the actual chemicals *banded* per acre to control white grubs. Cost of the chemicals then would be $1 to $2 per acre.

To do this the chemical in the form of wettable powder can be mixed with the seed in the drill box. Burkhardt advises filling the drill only one-fourth at a time and mixing ¼ of the chemical with each ¼ of the drill box of seed. His tests showed that the chemicals do not separate from the seed and work either up or down as the drill is pulled in the field.

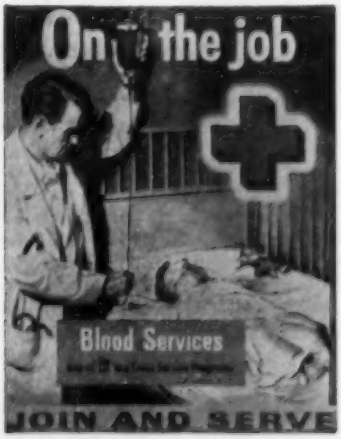
Kafir ants controlled. Two and ¼ ounces of actual aldrin, 1½ ounces of heptachlor, ¾ ounce of lindane, all in wettable powder form, per 100 pounds of sorghum seed will keep Kafir ants from attacking sorghum seed, according to Dr. H. R. Bryson, also of Kansas State College.

Fungicides can be used with the insecticides on wheat or sorghum seed. Some such mixtures already are available commercially. Others should be out soon.

Clover root borers have been controlled two ways. Aldrin and heptachlor in fertilizer placed in bands under the seed gave good control in Ohio. In New York a pound per acre broadcast in the fall also stopped the borers. How much of this would carry over almost two years for corn still has to be checked.

Against meadow spittlebug and alfalfa weevil, ¼ of a pound of heptachlor gives good results against the larvae of both pests, especially spittlebug. The treatment is applied broadcast in late March. If weevil is the only problem, the U.S.D.A. recommends the application be ¼ to ½ pound when the first cutting is half grown.

This is the picture for 1956 on soil insects. Watch *Successful Farming* for up-to-date reports as these important new practices continue to develop.



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Easily stored coils of pipe made of "Alathon" 25 are always ready to meet changing needs for water. This versatile pipe may be used either above or below ground; is quickly attached to existing metal installations and bends easily around corners or obstructions. Specify pipe made of "Alathon" 25 for the best in flexible plastic pipe.

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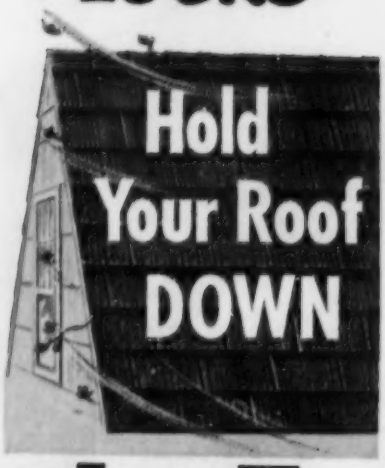

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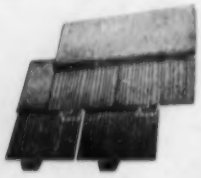

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Photograph: Stewart

Mound—newest shape for stack silage

New method is being used on corn-sorghum silage in Nebraska, long-grass silage in New York. Stack is sloped in all directions for a more thorough packing job

Past attempts to stack silage above ground have resulted in too much spoilage. It's risky to run the packing tractor to the edge of the stack and consequently the sides spoil in as much as 2 feet.

Now we have a simple solution to this problem—pack the stack on all sides and seal out the air completely. Make a mound—not a stack out of it. Admittedly there is more surface exposed than in a trench silo, so the advantage is where you need silage but have no trench or upright silo in which to store it. It is also a fast way to put up silage as well as taking the silage out for feeding.

Bernard McHargue, Central City, Nebraska, has built a mound of corn-sorghum silage for the past 3 years.

Above is shown his mound of 1,600 tons of corn-atlas sorgo silage off 100 acres. It's 8 feet deep in the middle. Four tractors packed continually while building and 2 tractors packed for an additional ½ day. McHargue does not cover his mound as he's in a dry part of the country. Spoilage has been 4 to 6 inches over the stack which he does not consider serious.

He starts cutting when corn is still a little green for upright silo filling. To take the silage out of the silo, McHargue uses front scoops on the tractor and dumps the silage into bunks.

Lloyd Southworth at North Bangor, New York, found himself in a serious predicament at haying time last season. His clover crop had matured and was lodging badly.

At no extra cost he made a long-grass mound 4 feet high and about 72x36 feet in size, from 14 acres.

Southworth cut the field of clover with a horse mower and windrow attachment. This made his medium-size tractor available for loading. The fresh-cut grass was loaded onto a wagon with a heavy-duty hay loader. The load was pulled off with a chain sling hooked on to the packing tractor. The material was packed continually during the entire operation. Finally, a 4-inch layer of sawdust was spread over the surface to seal out air and prevent spoilage.

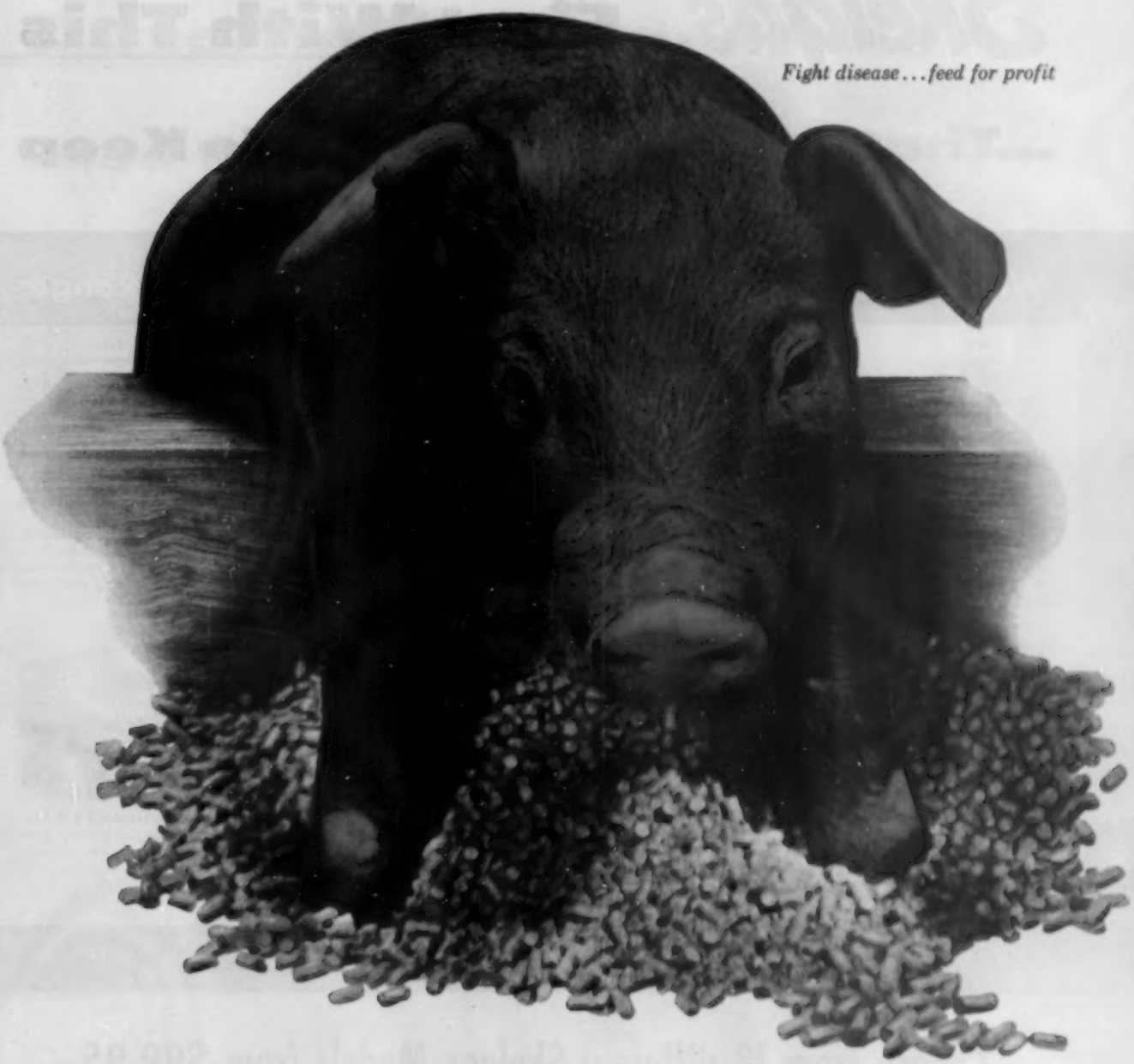
Total cost per ton from field to silo was $2.50.

When the stack was opened for feeding in October, the long-grass silage was in excellent condition.

General recommendations for mound silage: They appear to be most practical where rainfall is limited and soils are light or sandy. Packing is the key operation. Start it early and do a thorough job. Slope on the mound will be uniform from edge to edge if piling and packing is done from all directions. Make a mound at least 20 feet in diameter and 4 feet thick at center.

Chopped grass can also be made into mound silage.

When do they need a High Level feed?*



Even with the best management it is practically impossible to keep harmful bacteria from entering a baby pig's digestive tract. Sometimes they simply keep pigs from gaining as well as they *could* gain. At other times (usually after a stress or upset) they multiply with fantastic speed to cause scouring, setbacks and losses.

That's why high disease-fighting levels of antibiotics (from 50 to 200 grams per ton of feed) are especially important in pig-starting rations. Thereafter use a high-level feed at any sign of disease (such as scouring or a fall-off in feed consumption) and to *prevent* disease at time when resistance is lowered (after chilling, vaccination, rough handling).

Terramycin not only gives you the fastest, most effective action against scours-causing bacteria, it gives you the fastest, most consistent gains of any antibiotic. It makes you extra profits while it protects your pigs.

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World's largest producer of antibiotics; supplier of many of the health and growth-promoting ingredients that make today's fine feeds the best ever blended.

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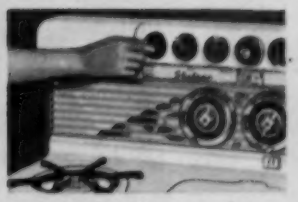
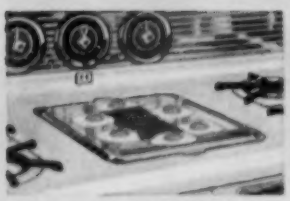
Why Cooking Is 8 Ways More Fun With a Constellation Range:

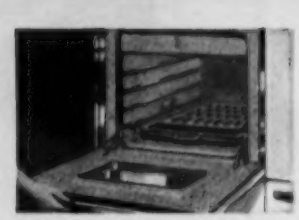
Giant new Speed Meal Burner reaches peak heat instantly — actually perks coffee up to one-third faster than other type burners. A Skelgas extra!



Exclusive Vue-Lite controls are on back panel, out of children's reach! Colored lights signal 4 "click-set" heats. Enjoy 1001 "in-between" heats, too!



Big, convenient griddle is not only ready instantly when you want eggs, bacon, hotcakes, or grilled sandwiches in a hurry, but converts to giant 5th burner!



No electric range can match the smokeless, closed-door broiling of this big 16" Broilmaster meat oven. Adjustable rack, new easy-clean light-gray interior.

A whisk of your dish cloth cleans burners that lift out easily and wash as quickly as a dish from your cupboard! No dirt-catching crevices to scrub!

Exclusive twin-clock control — simplest ever made — turns on oven at the time you set it for, cooks your meal to perfection and turns off — all automatically!

Instant automatic lighting in ovens. Therma-flo oven thermostatically controlled to hold the exact heat you set. Fully insulated for cooler cooking.

All burners guaranteed for life. Center Simmer top burners give flexible cooking, cooler kitchens. Instant automatic lighting with fuel-saving Mini-pilots.

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C. **SK-1466A:** Deluxe 30" range; 24" oven. Center Simmer burners, automatic oven lighting. Weekly payments from **$2.21**

D. **SK-1426A:** 36" range, automatic oven lighting, Center Simmer burners, Speed Meal, 16" oven. Weekly payments from . **$2.09**

E. **SK-1436:** Low Broiler 36" range; Hi-Lo burners, Speed Meal, Minute Minder. Full 16" oven. Weekly payments from . **$2.05**

F. **SK-1472:** Big 16" oven. Butterfly oven burner, accurate oven control. 3-position broiler. Weekly payments from . . . **$2.02**

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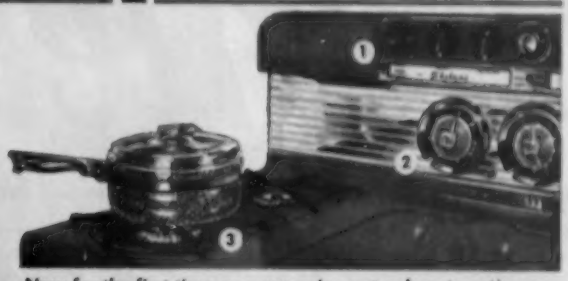

Now for the first time, you can enjoy not only automatic oven cooking, but the wonderful convenience of automatic cooking on top of the range, too.

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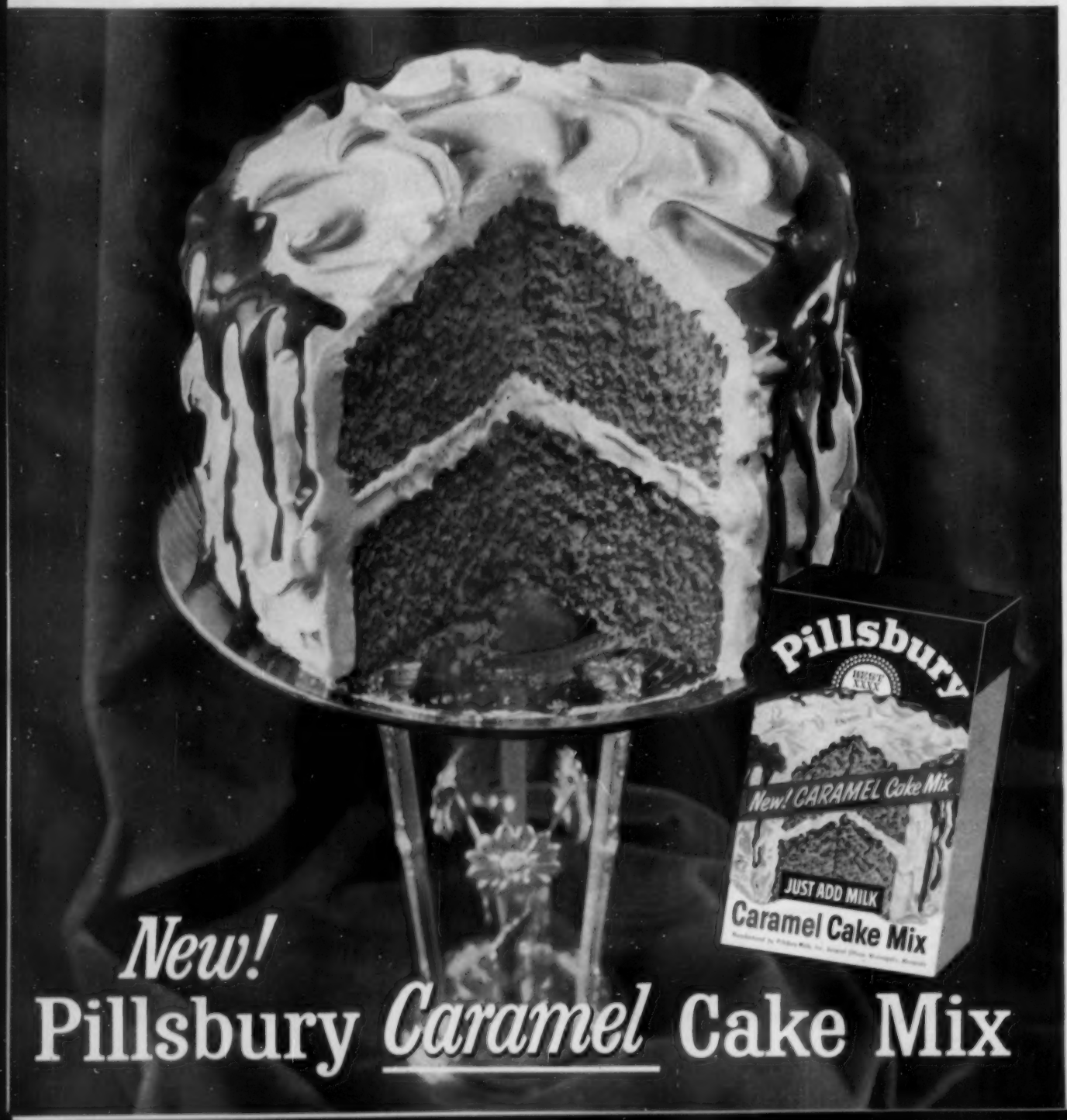


New!
Pillsbury *Caramel* Cake Mix

Photographs: Stanley

Rennet Custard Dress-ups
(Makes 4 servings)

1 package vanilla-flavored rennet custard
1 cup light cream
1 cup milk

Prepare custard according to package directions, using 1 cup light cream and 1 cup milk. Pour into serving dishes and chill. Just before serving, top with toasted coconut, chopped walnuts, or partially thawed frozen strawberries.

Packaged pudding fix-ups

Desserts fit for kings. All are variations of the familiar packaged puddings. Keep these fix-ups in mind when you need a dessert in a jiffy

Lemon Meringue Pie Quickie
(Makes a 9-inch pie)

1 package lemon pudding and pie filling
½ cup sugar
2 cups water
2 egg yolks, beaten
1 9-inch baked pie shell

Combine pie-filling mix, sugar, and ¼ cup water in saucepan. Add egg yolks; blend. Add remaining water. Cook, stirring constantly, until mixture comes to a boil and is thickened (takes about 5 minutes). Remove from heat. Cool for about 5 minutes, stirring occasionally. Then pour into baked pie shell.

Meringue: Beat 2 egg whites until foamy. Add 4 tablespoons sugar, 2 tablespoons at a time. Beat well after each addition. Continue beating until mixture stands in peaks. Spread over pie filling. Brown meringue at 425° (hot) for 5 to 10 minutes until golden brown.

Tapioca Cream With Fruit

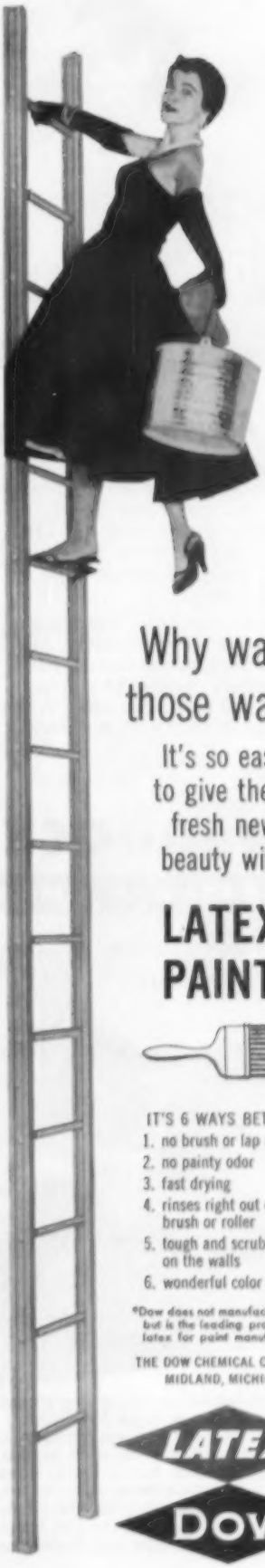
Make tapioca pudding according to package directions. For fluffy tapioca, use 2 beaten egg whites. Pour into sherbet glasses; chill. Top with drained, canned pineapple chunks; drained, canned Bing cherries; banana slices dipped in lemon juice; or drained, canned apricots.

Vanilla Sauce (Makes 2½ cups)

1 package vanilla pudding mix
2 cups milk
½ cup light cream
6 to 7 drops almond extract

Combine pudding mix and milk in saucepan. Cook and stir over medium heat until mixture comes to a full boil. Remove from heat. Add cream gradually. Add almond extract. Serve warm or chilled over cake slices.

More recipes on page 112



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CRADDOCK FURNITURE CORPORATION
EVANSVILLE 7, INDIANA

Packaged pudding fix-ups

From page 111

Tapioca Cream Whirligig (Serves 4)

Prepare tapioca pudding according to package directions; cool. Alternate (in sherbet glasses) layers of tapioca cream and ½ cup pineapple combined with 3 drops peppermint extract and a few drops green food coloring. Or alternate layers of tapioca cream with ½ cup whole cranberry sauce and ¼ cup blanched, slivered, toasted almonds. Chill and serve.

Ice Cream With Variations
(Makes about 1 quart)

- 1 package vanilla pudding
- 2 cups milk
- ¾ cup sugar
- ⅛ teaspoon salt
- 1 cup heavy cream, whipped
- 1 teaspoon vanilla

Vanilla Ice Cream: Prepare the pudding according to package directions. Heat to rolling boil and add sugar and salt. Chill. Then fold in whipped cream and vanilla. Turn into freezing tray. Freeze 1 hour at coldest temperature. Then turn into bowl; beat until smooth but not melted. Return to tray; freeze firm.

Peppermint Ice Cream: Follow instructions for making vanilla ice cream but omit sugar. After removing ice cream from freezer and beating smooth, fold in ½ cup crushed peppermint stick candy. Return to tray; freeze firm. Garnish with a peppermint stick.

Chocolate Zigzag Ice Cream: Follow instructions for vanilla ice cream. After removing from freezer and beating smooth, return to freezer tray. Then swirl 2 tablespoons chocolate syrup through ice cream. Freeze firm. Top with a chocolate mint.

MORE FARM AND RANCH CAR OWNERS INSURE WITH STATE FARM THAN ANY OTHER COMPANY IN THE WORLD. *Why?*

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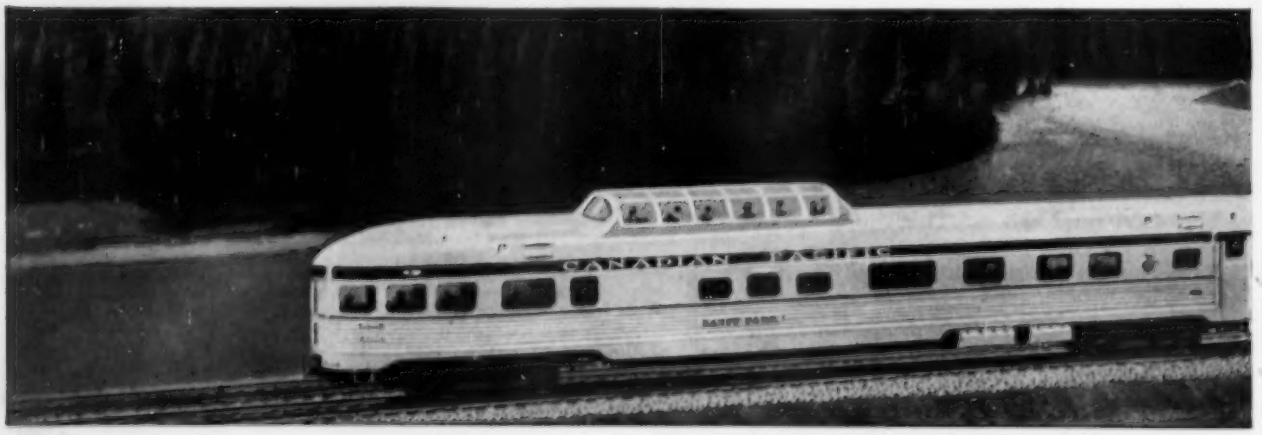

luxurious Scenic Domes on the Banff-Lake Louise route. In both this scene and the one below, the setting is the beautiful Bow River Valley.

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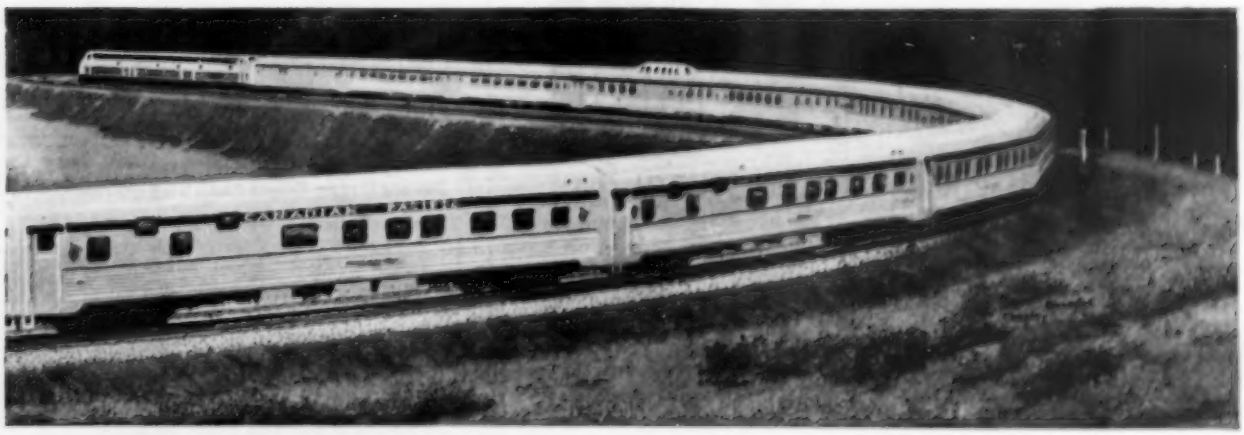
For details and reservations, contact your local agent or Canadian Pacific in principal cities in the U.S. or Canada.

Special for Camera Fans: If you plan to shoot color, you're advised to equip your camera with a No. CC30-R filter to compensate for the glareproof tint in the glass windows of the Scenic Domes. Detailed photographic tips are available aboard the train.



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Only clean milking equipment will deliver Grade-A milk! With 100% non-alkaline Vel, there's no milkstone – no hard brushing!

Vel gets milking equipment shiny clean in almost no time! And, because it is *100% non-alkaline*—it helps avoid rough, red hands. There's no "detergent burn" to hands with Vel.

No matter how hard the water, Vel does an excellent cleaning job! Dairymen say they prefer Vel because it is *white* and 100% non-alkaline!

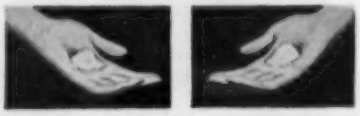
*VEL is the trade-mark of the Colgate-Palmolive Co.

NO "DETERGENT BURN" TO HANDS WITH VEL

VEL'S "HAND-HEAT TEST" *shows how to avoid alkalis . . . red, rough hands!*

Dip hands in water. Then put a tablespoonful of any leading washday detergent in one hand – put a tablespoonful of VEL in the other.

Feel the heat with any leading washday detergent, indicating irritating alkalis and harsh chemicals that cause "detergent burn".



Feel NO heat with Vel because Vel contains no irritating alkalis or harsh chemicals. There's no "detergent burn" to hands with Vel.

Lenten trio

From page 61

Salad Bread Ring (Makes 2 rings)

- 2 packages active dry or compressed yeast
- ¼ cup water
- ¾ cup scalded milk
- ¼ cup sugar
- 1½ teaspoons salt
- ⅓ cup shortening
- 3½ cups sifted flour
- 2 well-beaten eggs
- 1¼ cups grated American cheese
- 3 tablespoons chopped green pepper
- 1 tablespoon chopped onion

Soften dry yeast in *warm* water or compressed yeast in *lukewarm* water. Stir till dissolved. Scald milk. Add sugar, salt, and shortening; stir till shortening melts. Cool to lukewarm in large bowl. Add 1 cup flour and beat well. Add eggs and yeast. Mix well. Add remaining flour to make a soft dough. Turn the dough out on a lightly floured board and let rest 10 minutes. Knead until smooth and elastic, about 8 to 10 minutes. Place in lightly greased bowl, turning once to grease top. Cover and let rise in warm place till double, about 1 hour. Divide dough in half and let rest 10 minutes. Roll each into a 12x8x¼-inch rectangle. Sprinkle with cheese, green pepper, and onion. Roll lengthwise, as for a jelly roll; seal along edge. Shape into a ring, pinching ends together. Place on greased baking sheet. With scissors snip slices in ring, about ¾ inch apart. Turn each slice slightly to one side. Let rise till light, about 30 minutes. Brush surfaces with cream and bake in hot oven (400°) 20 to 25 minutes.

Cheesed Apple Pie
(Makes one 9-inch deep dish pie)

- 7 cups peeled, thinly sliced, tart apples
- 1 cup sugar
- 2 tablespoons flour*
- ½ teaspoon cinnamon
- ¼ teaspoon nutmeg
- 1 9-inch unbaked pastry shell
- 1 cup sifted flour
- ½ cup brown sugar
- ½ cup butter
- 1 cup grated process American cheese

Combine apples, sugar, flour, and the spices and place in pie shell. Mix flour and brown sugar. Cut in butter till crumbly. Sprinkle over top of apples. Bake in hot oven (400°) about 50 minutes or till apples are tender. Serve warm and sprinkle with cheese just before serving.

*(For juicy apples, use 4 tablespoons flour.) If apples need a tarter flavor, squeeze a bit of lemon juice over filling.

Savory Green Beans (Makes 6 to 8 servings)

- 2 packages frozen cut green beans
- 1 cup chopped onion
- ½ cup finely chopped celery
- ¼ cup butter
- ¼ teaspoon basil

Cook green beans in boiling salted water till tender. Drain. Cook onion and celery in butter till golden; add basil. Cover and simmer 10 minutes; pour over hot cooked beans. Toss lightly till mixed.

Garden Salad

Mix salad greens with carrot curls, onion rings, and tomato wedges. Toss lightly with oil and vinegar salad dressing.

Sunny Citrus Salad

Alternate orange and grapefruit segments in a bowl. Center with avocado balls. Serve with your favorite fruit salad dressing.

Waldorf Salad

Combine chopped apples, celery, raisins, nuts, and miniature or chopped marshmallows. Toss lightly with a creamy salad dressing.

Salmon Loaf with Lemon Sauce
(Makes 4 to 5 servings)

- 1 1-pound can red salmon
- 3 cups soft bread crumbs
- Salmon liquor plus cream to make 1 cup
- ½ teaspoon salt
- Dash pepper
- 1 beaten egg
- 1 tablespoon grated onion
- 1 tablespoon lemon juice

Drain salmon, reserving liquor. Flake salmon; add remaining ingredients and mix well. Place in an 8x4x3-inch loaf pan. Bake in moderate oven (350°) about 45 minutes. Or place in custard cups and bake for about 30 minutes. Serve with *Lemon Sauce.*

Lemon Sauce

- 1½ tablespoons butter
- 2 tablespoons flour
- ½ teaspoon salt
- 1 cup milk
- 2 beaten egg yolks
- 3 tablespoons lemon juice

Melt butter; blend in flour and salt, stirring till smooth. Gradually stir in milk and cook until mixture begins to thicken. Add a little of hot mixture to egg yolks and then return to hot mixture. Cook 2 minutes longer, stirring constantly. Add lemon juice and serve over salmon.

Gold-flecked Potatoes (Makes 4 servings)

- 4 large baking potatoes
- Salt and pepper
- Cream
- ¼ cup grated carrots
- 1 tablespoon minced parsley
- 1 tablespoon minced onion

Bake potatoes until done, about 1 hour. Split lengthwise. Remove pulp; mash, add remaining ingredients and beat until fluffy. Refill potato shells and return to oven. Bake in very hot oven (400°) just until brown, about 10 minutes.

Sunday Limas (Makes 4 servings)

- 1 10-ounce package frozen Limas
- Salt and pepper
- ¼ cup minced onion
- ¼ cup butter
- Pimiento strips

Cook Limas in boiling salted water just until tender (about 20 minutes). Drain; season to taste with salt and pepper. Cook onion in butter just until golden; pour over beans and mix well. Garnish with pimiento strips.

[*Turn to page 118*

it's more than an organ...
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Play a simple air on this Baldwin Orga-sonic Spinet Organ...touch a stop and hear it in strings, flute or oboe. That's the joy you'll find in this most exciting home organ—the endless variety of exciting things YOU can do even if you know only a little about music! For the Orga-sonic is designed for people like you...and there are thousands of them...busy people who, until now, have never had time to revel in the joy of music they play themselves. See your Baldwin Dealer...let him show you the infinite variety of music... organ, orchestra, dance band—that is yours only with the Orga-sonic Spinet Organ.

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SAYMAN PRODUCTS CO., Dept. 26-C, St. Louis 3, Mo.

Lenten trio

From page 117

Egg Rolls (Makes about 2½ dozen)

2 packages active dry yeast or 2 cakes compressed yeast
¼ cup water
¾ cup milk, scalded
½ cup sugar
½ cup shortening
1 teaspoon salt
4½ to 5 cups sifted flour
3 beaten eggs
Egg Glaze

Soften active dry yeast in ¼ cup *warm* water or compressed yeast in *lukewarm* water. Combine hot milk, sugar, shortening, and salt. Cool till lukewarm; stir in about 2 cups of the flour and beat well. Add eggs; mix well. Stir in softened yeast. Add remainder of flour to make a soft dough. Cover; let rest 10 minutes. On lightly floured surface, knead about 5 minutes, or till smooth and elastic. Place in lightly greased bowl, turning once to grease surface. Cover; let rise in warm place till double (about 2 hours). Punch down; cover and let rest 10 minutes. Turn out on lightly floured board. Roll out about ¼ inch thick; cut or form into desired shapes. Place about 2 inches apart on greased baking sheet; cover and let rise till almost double, about 1 hour. Brush with *Egg Glaze:* Beat together 1 egg and 1 tablespoon water. Bake in hot oven (400°) 10 to 12 minutes.

Orange-Cheese Cake
(Makes 8 to 10 servings)

2 envelopes (2 tablespoons) unflavored gelatin
¼ teaspoon salt
1 cup sugar
2 egg yolks
1 6-ounce can frozen orange juice concentrate
3 cups cream-style cottage cheese, sieved
1 cup heavy cream, whipped
2 egg whites
¼ cup butter, melted
1 cup graham cracker crumbs

Mix gelatin, salt, and ¾ cup sugar in double boiler. Beat egg yolks and stir in orange juice; add to sugar mixture. Cook over boiling water until slightly thickened, stirring constantly. Remove from heat, cool. Stir cottage cheese into gelatin mixture; fold in whipped cream. Beat egg whites to soft peaks; gradually add remaining ¼ cup sugar and beat till stiff peaks form. Fold meringue into cheese mixture. Combine graham-cracker crumbs with melted butter and press into an 8-inch square pan; pour in cheese mixture. Sprinkle top with extra crumbs. Chill till firm.

Restiffen limp petticoats

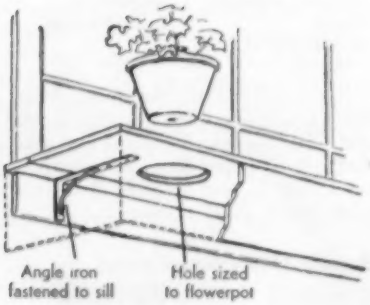
Here's some really good news for you if you have lots of trouble keeping your "permanently" stiff nylon net petticoats from becoming limp after washing.

Opal Roberson, extension textiles and clothing specialist at Iowa State College, says wash your petticoat and iron it as you usually do. When it is completely dry, start the stiffening treatment—which is simply starching. Spread the petticoat flat on a table, rub undiluted liquid starch into it with your hands. Be sure to cover every portion of the garment. It may seem that you're using a lot of starch—but actually you aren't.

To dry, pin the petticoat to two parallel clotheslines which are about 12 inches apart to keep the folds of fabric separated so the fabric won't stick together as it dries. Make certain that the part of the garment pinned to the line is on the straight of the material.

Build a kitchen window box

Photograph: Reynolds, Photography, Inc.



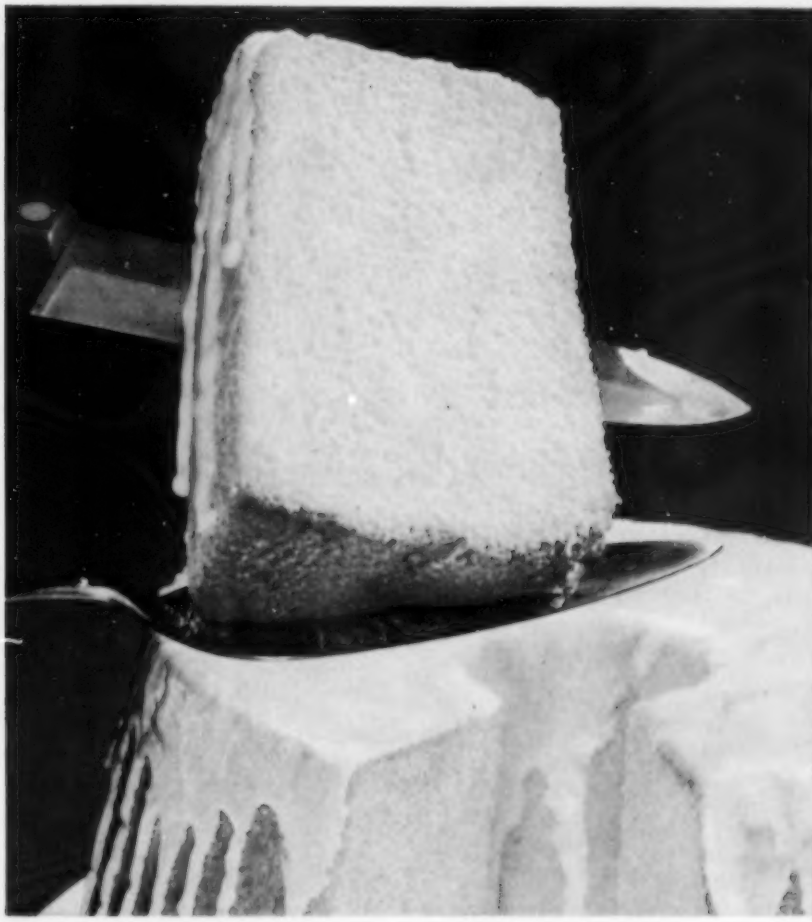
This window box, also seen on the cover of *Successful Farming*, is easy to build. And, you'll like its versatility—change plants to fit the seasons. Mrs. Ray Blades, Monroe County, Missouri, says it's a good housekeeper's delight. Dust around flowerpots or lift them out. Plastic bowl covers cap the bottom of pots to catch drips after watering.

Make window box from two 1x6 boards (length of window and woodwork), end boards, angle irons, or shelf brackets.

Saw holes in one 1x6 board sized to circumference of 4-inch flowerpot just below its lip. Bolt angle irons or shelf brackets to bottom of 1x6 and to sill at 2-foot intervals level with sill. Enclose ends and front with second 1x6.

Duncan Hines' Newest . . . and most versatile!

Sunshine SPONGE Cake Mix



IT'S THE MIX THAT MAKES THE MOST AND FANCIEST DESSERTS . . . SO EASILY

JELLY ROLL—easier than you think. (Directions on package.) Dust with powdered sugar, cover with frosting, or serve with whipped cream.

FRUIT SHORTCAKE—split cake squares, fill with sweetened fruit, top with more fruit and whipped cream. See package for easy directions.

LEMON ICEBOX CAKE—sponge cake layers, split and put together with a cool, tangy lemon pie filling. Makes a handsome dessert. Package tells how.

BAKED ALASKA — make a stiff meringue of 4 egg whites, ¼ tsp. cream of tartar, ⅔ cup sugar. Pile very firm ice cream on a sponge cake layer to ½ in. of edge. Cover with meringue, and pop in a 500° oven until light brown (3 to 5 min.). Serve at once.

High as an angel food . . . with a moistness that lasts . . . and the mixing couldn't be easier!

Duncan Hines says: "Of all the cakes I've put into mixes, I'm especially proud of this—because I know the cake you make with it will be everything a true sponge cake should be: high, light, tender, moist, with a sunshine color and fresh, delicate flavor.

"The mix itself is so highly perfected you just can't have anything less than a huge success. And the two fresh eggs I ask you to add make all the difference! They make the cake rise high in the pan, make it tender and moist, and keep it moist for days.

DUNCAN HINES
America's Foremost Authority on Good Eating

"Bake it any way you please—in a tube or loaf pan, in layers, in a sheet. It's so easy to handle! You can roll it, split the layers with a nice clean cut . . . and of course fill it, frost it, serve it with a simple custard, fruit, ice cream or your richest sauce.

"You can have fun with this mix, because everyone knows a fine sponge cake is the beginning of dozens of wonderful desserts. Vary it as many ways as your imagination can dream up—it will make the most talked-about desserts you ever brought to your table."

Duncan Hines

New "7-MINUTE FROSTING" in Half the Time

Karo® Syrup cuts cooking time in half ... keeps frostings from "sugaring"

7-MINUTE FROSTING

Karo Syrup makes frostings glossy, smooth-textured.

2 egg whites
½ cup KARO Syrup, Red Label
½ cup sugar
⅛ teaspoon salt
1 teaspoon vanilla

Place egg whites, KARO Syrup, sugar and salt in top of double boiler. Beat with rotary beater until partially mixed. Place over rapidly boiling water and cook, beating constantly with rotary beater until frosting stands in peaks, about 3 to 4 minutes. Remove from heat and continue beating about 1 minute longer. Add flavoring, beating in well. Makes enough to cover top and sides of two 8 or 9-inch layers.

Butterscotch Frosting: Substitute Blue Label KARO for Red Label and brown sugar for white sugar.

A glamorous pie to make you famous! Dark Karo Syrup gives it distinctive flavor ... makes the filling smoother.

KARO PECAN PIE

½ recipe pastry
2 eggs, beaten
1 cup KARO Syrup, Blue Label
***⅛ teaspoon salt**
1 teaspoon vanilla
1 cup sugar
2 tablespoons melted butter or margarine
1 cup pecan meats

Roll pastry ⅛ inch thick. Line a 9-inch pie pan. Mix remaining ingredients together, adding pecans last. Pour into pastry shell. Bake in hot oven (400° F.) 15 minutes; reduce heat to moderate (350°F.) and bake 30 to 35 minutes longer or until a silver knife inserted in center of filling comes out clean.

*If salted nuts are used omit salt in recipe.

Produced by Corn Products Refining Co.

When a recipe calls for corn syrup ... that means Karo

Tips for

Ideas that add and make food

● Let the children help make these squared-circle cookies. Make a recipe of your favorite sugar-cooky dough; chill; roll out to make square ⅛ inch thick. Cut into 1½-inch squares; center each with a solid chocolate wafer. Bake on greased cooky sheets in moderate oven (350°) about 10 minutes.—*Mrs. J. L. Dale, Iowa.*

● When serving pancakes to a crowd, you can keep a whole batch hot by placing them between folds of a warm towel in a *warm* oven. Then everyone can enjoy a stack of hot cakes at the same time.

● The whole family will enjoy these tasty, quick hamburgers. Season a pound of ground beef and shape into 8 thin patties. Lay a thin slice of potato and one of onion on top of 4 of the patties. Top each with another patty and wrap individually in aluminum foil. Place in broiler 3 to 4 inches from the source of heat. Broil 10 minutes; then turn to broil 10 minutes on the other side.—*Mrs. Anna Young, Missouri.*

the cook®

sparkle to meals preparation easier

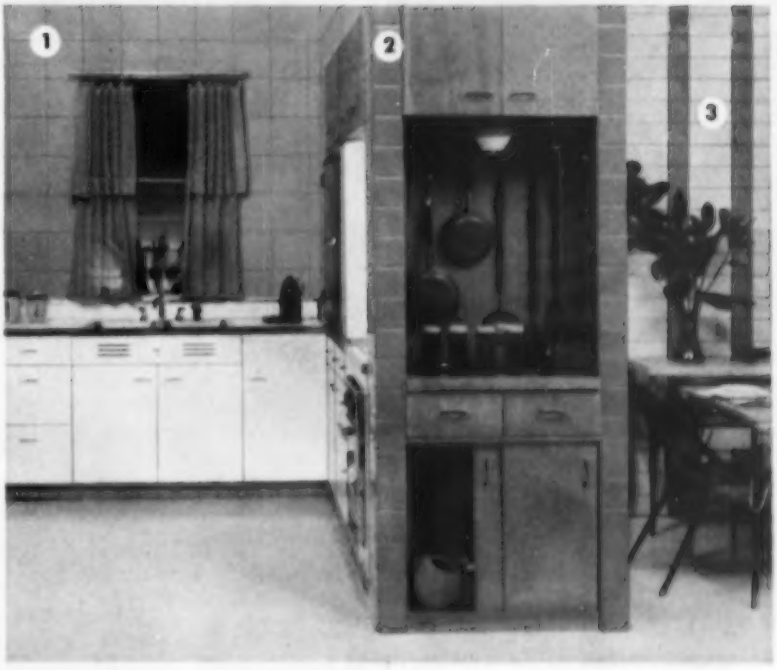
Photographs: Van Beerle Studio, Stanley

● For a tasty munch for TV viewers, try this: Mix ¼ cup sugar with 1 teaspoon cinnamon. Melt ¼ cup butter in large skillet and add 3 cups bite-size shredded rice biscuits. Sprinkle half the cinnamon-sugar mixture evenly over rice biscuits. Stir and sprinkle with remaining half of mixture. Heat, stirring gently, till all pieces are covered. Spread out to cool before serving.—*Mrs. James Hill, Ohio.*

● When frying doughnuts, put 2 or 3 of the "holes" on a toothpick, sides touching. Fry and remove the toothpick. Your doughnuts will have a new tricky shape. —*Mrs. George Meyer, Illinois.*

● Whipped cream will have a pleasing nutty flavor if a little chunk-style peanut butter is folded in after cream is whipped partly stiff. It makes a pretty ripple effect and is especially delicious on gingerbread.—*Mrs. William Ita, Nebraska.*

● This tip will help your bread dough rise faster: Place the bowl of dough on a rack over a bowl of hot water. Cover with a clean tea towel to prevent drafts.



MADE OF STYRON A DOW PLASTIC

THE LUXURY LOOK

It's the look that comes naturally to this beautiful kitchen in guaranteed plastic wall tile made of Styron®. See how modern king-size squares (1) emphasize the kitchen against the smart new combination of regular-size squares (2) and brick shapes (3) in the dining area. Dramatic color schemes are yours for the choosing from dozens of professionally styled Styron colors. Think how proud you'll be . . . think of the work you'll save when your dream kitchen comes to life with this smooth, moisture-proof, easy-to-clean beauty. Guaranteed plastic wall tile—made of Styron by reputable manufacturers and sold only by certified dealers—is your most practical wall covering buy. THE DOW CHEMICAL COMPANY, Midland, Michigan.

you can depend on DOW PLASTICS DOW

Now cut feed costs up to 8% with

TERRAMYCIN FOR BEEF

This steer, a 1955 Illinois State Fair Champion, was grown on a Terramycin fortified ration.

Here are results from a leading state university*						
	GROWTH *In lbs. per day*			FEED EFFICIENCY *Lbs. feed per lbs. gain*		
	Without Terramycin	With Terramycin	% increase	Without Terramycin	With Terramycin	% increase
Trial 1	2.56	2.71	6%	10.13	9.47	7%
Trial 2	2.21	2.48	14%	11.70	10.41	11%

In these University feeding trials, steers getting Terramycin in ration gained 6% to 14% faster; production cost was reduced as much as 2.25¢ per pound of gain.

*Texas A. & M. College System, Progress Report 1816, Cattle Series 124, Sept. 23, 1955.

- **In 17 feeding trials with over 2500 cattle, Terramycin produced an 8% average improvement in both rate of gain and feed efficiency.**
- **$3.44 average increased profit per head on Terramycin-fed cattle over cattle on same ration without Terramycin.**
- **Terramycin saved an average of 1.2¢ in feed cost per pound of gain.**
- **Carcass quality, dressing percentage as good or better than controls.**
- **Higher levels of health, with better overall appearance.**

Now cattle feeders can get the extra growth-making and cost-saving advantages that Terramycin has brought to hog producers.

If you *do not* use Stilbestrol, Terramycin will give you more efficient gains on less feed than ever before possible.

If you do use Stilbestrol, Terramycin will give you still more efficient gains *on top* of the Stilbestrol gains.

To take advantage of this new feeding development that lowers production costs still further, ask your feed dealer for a brand of beef supplement containing Terramycin.

STILBESTROL FEEDERS

If you are now using a Stilbestrol fortified ration ask your feed dealer for a supplement containing Stilbestrol *plus* Terramycin.

Pfizer Terramycin *for* Beef

BRAND OF OXYTETRACYCLINE

Chas. Pfizer & Co., Inc., Brooklyn 6, New York
World's largest producer of antibiotics

You can

Double your timber income

When selling your forest products, a written agreement can mean nearly half again as much money for you.

This was indicated by a recent study of Pennsylvania forest-product marketing practices and pricing processes. The study revealed that sellers using verbal sale contracts also had more difficulty enforcing sale agreements. With written contracts, good harvesting practices such as slash disposal, care of standing timber, and diameter limitations were more closely observed. And sellers with written contracts were better satisfied with the way buyers complied with financial provisions such as time of payment.

For a timber-sale agreement applicable to your state contact the Extension Forester at your state college. It will up your timber income and save you many market headaches.

But to get the most money from your forest, the written sale agreement should be the end result of a carefully planned marketing program. Before the sale is made, secure a good estimate of the amount of forest products available for sale. Pennsylvania foresters know of owners who have taken time to make the necessary measurements and calculations. Using informational guides, these farmers often have earned a return of $25 to $50 per hour for this work.

Diameter measurements may be made with a tape calibrated to read in diameter instead of circumference, with a tree caliper, or by means of a special "tree scale stick" which is held up to the tree and diameter read direct. The heights may be estimated by eye, by the use of a measuring pole, or by the calibrations on the "tree scale stick."

The volume of a tree is determined by measuring the diameter outside the bark, at a point of 4½ feet above the ground and the usable length of the trunk. Volumes of lumber indicated by these two dimensions may be looked up in prepared tables.

For still greater returns from your woodlots, thoroughly investigate your local markets. They may pay better prices than outside markets because of the saving in transportation charges. Visit with your neighbors who have recently sold their timber and use their experiences as a guide. Call on your local county agricultural agent and other informed persons in your area.

Judgment is necessary in estimating the usable portion of tree trunks. A "tree scale stick" will be found helpful. You'll need to follow the "Directions for Use" that accompany this tool to get best possible results

With this information contact as many buyers as possible and find out what prices they offer for various forest products. The Pennsylvania study revealed that sellers who solicited bids from a number of buyers received a price more than 30 percent higher than sellers who sold after receiving an offer from only one buyer.

Further represent your interest by advertising the products you have for sale. Local daily newspapers are very good for this purpose. The expense will be small and will assure you of a number of bids.

For still better selling prices, market individual tree species for specific uses. Sales data from the study indicated up to $23 per thousand board feet could be gained by sorting the products by species. The sale of mixed species tends to have the price fixed by the lowest quality marketed in the lot.

Many variables affect timber values at any time or place. Some of these are kind and size of trees, soundness and straightness of trunks, ease of logging, accessibility of roads, distance to mill, local demand, and general market conditions.

Move Dirt *Fast!*

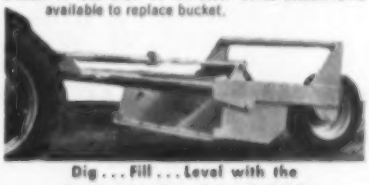
WITH SHAWNEE® EARTH MOVING TOOLS

• Lifts 2000 lbs. to 9 ft. height
• Fits more than 20 tractors

SHAWNEE "SPECIAL" LOADER

A Heavy, Industrial Type Loader at a Low Farm Loader Price!

All welded construction . . . double acting cylinders throughout. Two-pin installation allows removal from tractor in less than 10 minutes. Other attachments available to replace bucket.



Dig . . . Fill . . . Level with the

SHAWNEE SCRAPER

For 1-300 International and Ford tractors

Dig trench silos, drainage canals, build terraces, etc. 66-inch width blade extends beyond wheels . . . dig as deep as you need. Operates off tractor hydraulic system.

Model 150 REAR BLADE

Offers greatest number of adjustments at low cost. Six foot mold-board is fifteen inches high. Fits all 3-point linkage.

Model 200 REAR BLADE

Blade can be tilted or extended to the right or left manually, and is instantly reversible. Ideal for "V" ditches. All positions from driver's seat.

931

Write for COMPLETE INFORMATION

Nationwide Sales and Service

SHAWNEE MANUFACTURING CO., INC.

1947 BQ N. TOPEKA AVE., TOPEKA, KANSAS

Use d-CON as directed and

GET RID OF RATS AND MICE FOREVER!

You don't have to be an expert—anyone can use clean, odorless d-CON!

Don't gamble with the 27 dread diseases known to be carried by rats and mice. End property loss, food contamination and risk of fires caused by these vicious rodents. Follow simple directions and d-CON is safe to use around children and pets yet so effective it rids your property of rats and mice forever! Get d-CON today! Stop rat disease and destruction NOW!

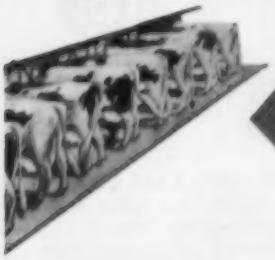
d-CON with LX3-2-1 works where traps and poisons fail

Rats are smart. As soon as one or two are caught in traps or killed by poison, the rest of the rat colony becomes bait-shy. Because d-CON is odorless, tasteless, and causes no pain, rats and mice never realize that d-CON with LX3-2-1 is causing their death.

d-CON IS GUARANTEED TO RID YOUR PLACE OF EVERY RAT AND MOUSE IN 15 DAYS—OR MONEY BACK.

Get d-CON at drug, grocery, hardware or department stores.

THIS FREE TEST WILL PUT MONEY IN YOUR POCKET!



USE YOUR PRESENT MILKER ON THIS SIDE OF YOUR BARN . . .

USE A NEW DE LAVAL MILKING UNIT ON THIS SIDE . . .

HERE'S PROOF...BEYOND ANY DOUBT... THAT THE FASTEST, EASIEST, MOST PROFITABLE WAY TO MILK IS DE LAVAL!

This FREE comparison test costs you absolutely nothing. It will show you—on your own herd—that De Laval milks faster . . . cleaner . . . is better liked by your cows than any other milker.

Make the FREE De Laval Test now. Just call your nearby De Laval Dealer . . . or mail this coupon today!

DE LAVAL

FREE TO TRY
EASY TO BUY!

The De Laval Separator Co. Dept. 30-C
Poughkeepsie, N. Y.

I'm willing to be shown. Please send me the name of my nearest De Laval Dealer and tell him I'd like to try a De Laval Sterling Milker on my present pipeline.

Name_____

Town_____ RFD____ STATE_____

Name of Present Milker_____ I milk____ cows

THE DE LAVAL SEPARATOR COMPANY Poughkeepsie, New York • 427 Randolph St., Chicago 6
DE LAVAL PACIFIC CO. 201 E. Millbrae Ave., Millbrae, Calif.

Feed out of storage

From page 65

heifers almost hit 700 pounds of butterfat.

A close look at the cows, any time of the year, will convince you that they stay in good flesh and good health. There's no temporary lag from faltering pastures, no scramble to locate extra pasture, and the cows are always handy to the barn.

But there's more to this story than just feeding the cows. The land must be fed properly to produce the kind and amount of nutrients needed. Each rotation (5 years) gets 2,500-2,600 pounds of high-analysis fertilizer per acre and each acre has had 10 tons of lime since Art and Don took over the home farm in 1944. They have the soil sweetened to 6.0, want to get it up to 6.5 and keep it there.

The Crockers use a 5-year rotation of corn, oats, and 3 years of legume-grass meadow, largely Ranger alfalfa. The seeding mixture is 7 pounds of alfalfa, ½-pound of Ladino clover, and 5 pounds or less of timothy. Meadows are band-seeded in oats over 400 pounds of 8-16-16 fertilizer. The boys admit this may be a little high in nitrogen for oats but it gives the meadow seeding a whale of a start and that's what they want.

Oats this year yielded close to 100 bushels per acre, despite some lodging. In the fall, the new seeding gets 500 pounds of 0-20-20 per acre; this treatment is repeated each year it's in meadow.

Alfalfa sod plowed for corn is top-dressed with 300-350 pounds of 10-10-10 broadcast ahead of plowing. This year they didn't get at the plowing right after top-dressing and had to cut a crop of hay off before they could plow for corn. The corn gets 350 pounds of 8-16-16 in the row at planting time.

Three days after planting, the corn ground is given a pre-emergence treatment of 2,4-D. "Then comes the hay," says Art, "and we don't see the corn again for 4 to 5 weeks—until the first crop of forage is off the meadows." The corn then gets one or two cultivations.

The creek-bottom pastures are limed, fertilized, and manured heavily and seeded to meadow mixtures. The 10-acre field where the milking herd runs was renovated 2 years ago. Briars, brush, and scrub trees were removed and the field was tiled. It got 10 tons of lime and 1,000 pounds of fertilizer per acre. Sod was torn up and seeded to a ryegrass, bromegrass, Ladino clover, alfalfa mixture.

You can't stand any place on the main farm and be more than 15 feet from a tile line; the smaller farm is being tiled the same way. This has a lot to do with getting top crop yields.

Art and Don maintain, "We're just beginning to learn how to farm. Our theory is that we're not doing anything exactly right. We're constantly looking for ways to improve the things that some folks may think we're doing about right. The only way you can make progress is never to be satisfied with present ways."

New Holland Model 300 shreds and spreads 130-bu. loads of the densest chunks of matted material. The uniform, wide-spread pattern with this high capacity can cut your trips as much as 50%. Patented *Uni-Lever* control gives you 4 apron speeds . . . lets you stop beaters while apron cleans out load without any throw-back!

Even a farmer with only 28 cows is ready for this BIG spreader!

New Holland's 130-bushel spreader is built for expanding farm operation. If you own 28 cows or more, you're ready for this trip-saving spreader right *now!*

Figuring equipment and operation cost *plus* depreciation, the Model 300 actually costs less than a 70-bu. spreader—only about 79¢ a ton hauled as compared to 85¢ with the smaller spreader. And the bigger your herd, the greater your savings.

You can get detailed cost comparisons for your own size herd from your New Holland dealer. See him right away! New Holland Machine Co., a subsidiary of Sperry Rand Corp., New Holland, Pa.

Save work on these other materials handling jobs

For poultry manure, simply mount the fine manure attachment on your Model 300. It prevents droppingof the manure between end of the bed and paddles. Even spreading—without heavy strips.

As a bunk feeder, just hook up the cross conveyor to the "300" and go! One man can do the whole job from the tractor seat. Besides dry lot and green feeding, use this rig at elevators and blowers.

As a forage wagon, put up extension sides and the Model 300 is a deep-capacity, self-unloading wagon. No forking. Improved endgate prevents spillage. Unload at blower or into trench silos.

NEW HOLLAND *"First in Grassland Farming"*

Here's how

You plant

For the biggest—with strong plants

▶

2. Spread roots of plant, widely and naturally as possible, over the soil shaped into a cone. Hold graft knob (at point of knife in picture) 1 inch below original level of soil. Since some settling cannot be avoided, start with plant a little high.

▶

4. Cut back stems. Put dry soil over the wet soil. If your rose did not arrive pruned, cut stems back so they are only 4 to 6 inches long. Make each cut a smooth one at a point ¼ inch above an outward-pointing bud.

These cut ends should be coated with a special tree-wound compound, chewing gum, or with modeling clay or floral clay.

a rose

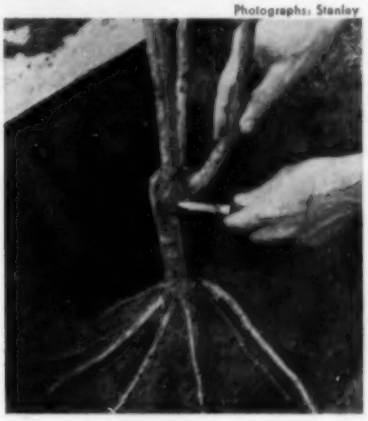
and best—roses, start and set them this way

1. Dig a deep, roomy hole. Choose a spot where the soil drains well and where your rose will get sun for at least half of each day.

Roses like a clay-loam soil but they'll grow in stiff clay if you pulverize the soil you dig from hole and add ¼ to ½ peat or compost to it. Hole should be 18 to 20 inches wide and 1 foot deep. Shape pulverized soil in form of a cone.

◀

Photographs: Stanley



3. Settle soil. After you have filled in around roots with fine soil, add dry plant food mixed with rest of soil. Settle the soil with water. Jostle the plant to eliminate air pockets around roots. Check level again, and water again.

◀

Electric conveyor does away with carrying and lifting and cuts his manpower needs by 50%, says C. R. Hack of Berwick, Pa. He uses it to handle ear corn and baled hay, easily and quickly.

Abundant electric power reduces manpower needs, boosts production and profits

Electricity is supplying "muscles" and "long arms" for all kinds of farm jobs—storing ear corn, for example. In more than 300 farm operations, low-price electricity is saving manpower, increasing production and profits, making farm life more enjoyable.

As electricity's benefits to the U. S. farmer increase, so do his needs for more and more electric power. He's using twice as much as he did ten years ago. By 1962 he'll need twice as much again.

The added power for more electric help will be supplied by America's more than 400 independent electric light and power companies, and by local farm electric groups. They are all planning and building ahead now so there'll always be plenty of electricity to make the business of farming more attractive than ever.

America's Independent Electric Light and Power Companies*

**Names on request from this magazine*

Mrs. Bruin comes a-calling in beautiful Banff National Park, Alberta. You'll see wonderful wildlife in these perfect Canadian preserves — and they're grand spots for fishing, camping, *relaxing* with nature at its freshest and finest. See your travel or transportation agent soon. No passport needed.

For outdoors fun, scenic thrills

29,000 square miles of National Parks

in cool, uncrowded

Canada

...Vacations Unlimited!

You'll like the new holiday thrills and friendships furnished by Canada's array of comfortable, congenial resorts.

If you're a golfer, you'll have games to really remember on Canada's collection of challenging, well-planned courses.

And there are more than 59,000 nautical miles of magnificent Canadian coastline for sunny, restful vacations-by-the-sea.

You'll see panoramas of pure natural glory along Canada's easy-travelling roads. Fine accommodation awaits at journey's end.

01-5-08-56-02

CANADIAN GOVERNMENT TRAVEL BUREAU, OTTAWA, CANADA

Check √ *as required.* Please send me

☐ The Canadian Vacation Package containing:

- A new, 48-page, full-colour booklet, "Canada... Vacations Unlimited" describing holiday attractions in all parts of Canada.
- Detailed, 37" x 20", full-colour "Canada-U.S. Road Map" of all Canada and northern U.S.A.
- "How To Enter Canada"...helpful information on customs regulations, etc.

☐ The catalogue of "Canadian Travel and Wildlife Films".

*Name*_____
PLEASE PRINT

*Address*_____

*Town*_____ *State*_____

Sew a winter-into-spring ensemble

Now's the time to sew clothes that will brighten your wardrobe during these last days of winter and will take you into the warm spring days! Choose fabrics for these between-season clothes that will be suitable for warm weather, too.

Many of the newer synthetics or blends will be good choices, and perhaps you'd like to combine a small print with a plain.

When choosing machine-washable fabrics for your spring sewing, also choose linings, interfacings, and trimmings to go into the garment that are washable.

Whatever your choice for in-between-season sewing, make sure it will be a smart addition to the things you already have in your present wardrobe and will be something you'll enjoy wearing for months to come.

Drawings: Spurgeon

Slim silhouette coat features a stand-away-from-the-neck collar in proportion with rest of coat and is ideal to trim with novelty braid or your own fancy machine stitching. The ¾-sleeves are wonderful to show off special gloves or bracelets.

Slim silhouette, but big pleats in front of skirt, make walking easy in this empire-waistline dress that goes under a lightweight coat so well. Fitted at waist, both front and back, to give every woman figure-flattery.

Made in small silk print, or a wash 'n wear synthetic or treated cotton, this is a good choice for between-season wear and warmer days, too. Coat and dress are both Advance Pattern 7893, misses sizes, 10-18, 50 cents each.

This Advance Pattern is available at your local dealer or may be ordered directly from Successful Farming, 1103 Meredith Bldg., Des Moines 3, Iowa.

Cherished Memories . . .

the Wedding Day

In each one's life there are many cherished memories . . . shared with loved ones and friends. In each one's life there are cherished memories of dear ones departed. The desire to express these cherished thoughts in eternal living memory is a traditional American family custom.

For generations Americans have erected appropriate BARRE GUILD Monuments. Today, there is available a BARRE GUILD Monument that will fulfill your most cherished memories.

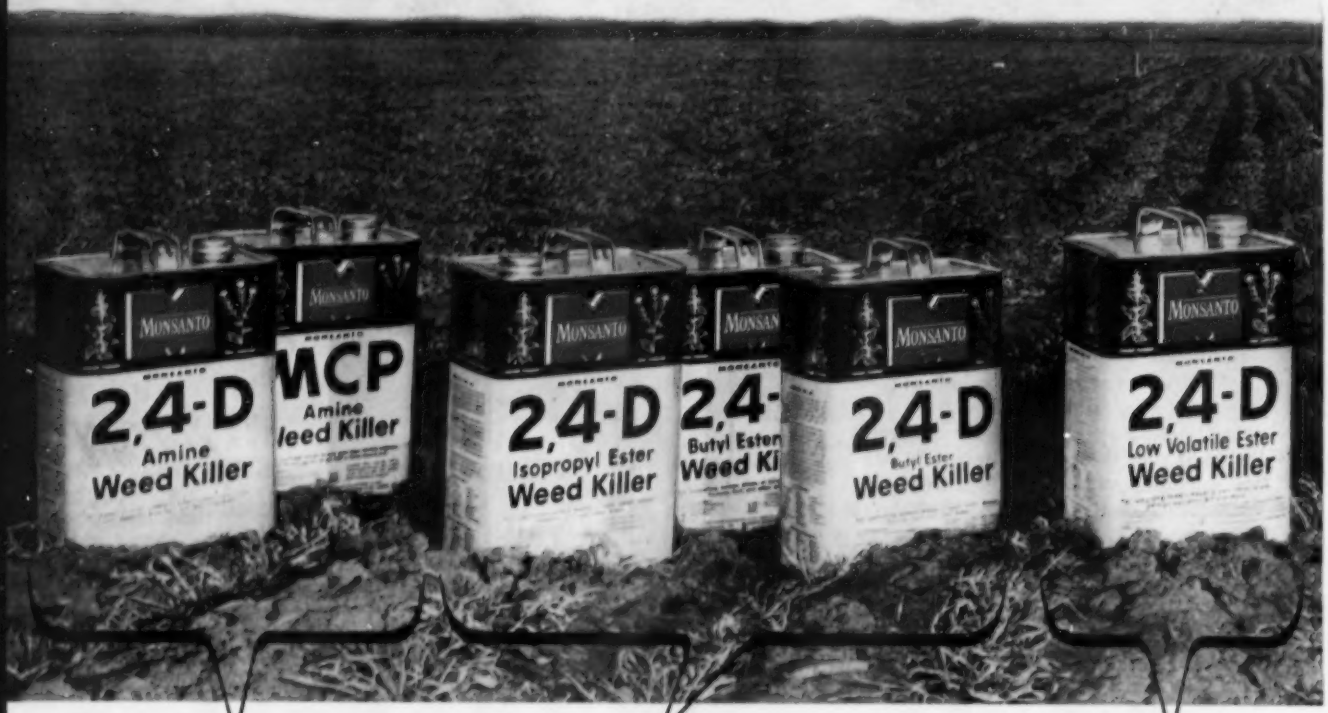
Only from Barre, Vermont, can you obtain a BARRE GUILD Monument . . . and *only* in Barre can you find craftsmen with the artistic talent for creating traditionally excellent monuments to your cherished memories. There's a BARRE GUILD Monument dealer near you.

BARRE GUILD Monuments
"Mark of the Masters"

Write for FREE BOOKLET: Barre Guild, Barre 90, Vermont

MONSANTO'S NEW WEED INCREASE YOUR NET

Complete family of 12 proved herbicides saves 1 to 2 cultivations a year,



For safe, low-cost weed control in small grains, corn, sorghum, flax, rice, sugar cane.

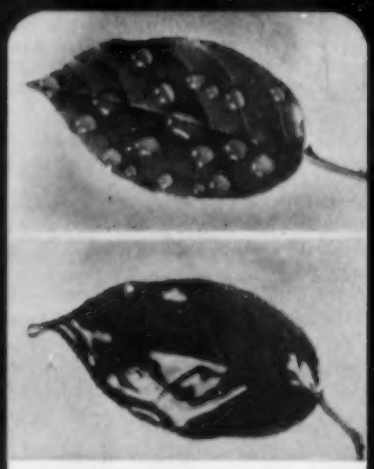
For hard-to-kill perennial weeds in small grains, corn, sorghum . . . weeds, woody brush in pastures.

For effective weed control in one crop . . . and maximum protection for sensitive near-by crops.

UNIFORM, GUARANTEED QUALITY

Monsanto Weed and Brush Killers have been carefully developed, tailored and tested to do a specific job for you . . . and do it right! You'll find complete product information and directions for use on each container. Always refer to the label before using.

ADDITIVES TO SPEED PENETRATION



Special Wetting Agents make Monsanto herbicides spread more evenly to penetrate and kill weeds and brush faster. Other additives lower freezing point . . . prevent corrosion!

SPECIAL ANTI-CLOG AGENTS

No need to add baking soda! Monsanto weed and brush killers won't clog nozzles or screens. You get uniform solutions in hard or soft water.

AND BRUSH KILLERS PROFIT PER ACRE

gives you cleaner and more productive crops at lowest cost per acre

For spraying crops by air when this is the most practical method of application.

For effective control of mixed brush species in range lands, pastures and fence rows.

For greater effect than 2,4-D on many tough, woody plants in range lands, pastures, fence rows.

...AND A HELPFUL DEALER NEAR YOU

The Monsanto Dealer in Your Town has been carefully selected for his good record of customer service. You'll find him ready and willing to work with you and your local agricultural experts in solving the weed and brush problem on *your* farm. Why not stop in the next time you're in town? Look for the big red Monsanto "M" displayed by your dealer.

GROW MORE PROFITABLY...

MONSANTO

- Weed Killers
- Brush Killers
- DDT and Parathion Insecticides
- Made-Green® Silage Preservative
- Phosphates (liquid and solid)
- Lion Brand Ammonium Nitrate
- Sulphate of Ammonia
- Anhydrous Ammonia

LION

WHERE CREATIVE CHEMISTRY WORKS WONDERS FOR YOU

Keep teat OPEN
Keep it HEALING
Keep it MILKING

Don't let
SCAB TEATS
BRUISED TEATS
OBSTRUCTIONS
Close The Teat Canal

Dr. Naylor's Medicated Teat Dilators act both medically and mechanically to provide antiseptic protection, reduce inflammation and maintain free milk flow through the canal of hard milking teats. They provide gentle, non-irritating support to delicate lining of teat canal. Keep end of teat open in its natural shape to promote normal healing — natural milking.

ANTISEPTIC

Dr. Naylor Dilators are medicated protective dressings for the teat canal. Contain SULFATHIAZOLE — this medication in the Dilator is released slowly in the teat for prolonged antiseptic action directly at site of trouble.

EASY TO USE. Simply keep a Dr. Naylor Dilator in teat between milkings until teat milks free by hand. Fit either large or small teats. At drug and farm stores or mailed postpaid.

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Large pkg. $1.00
(45 Dilators)
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Dr. Naylor's
MEDICATED
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Article reprints available (100 or more). Write to *Successful Farming* for prices.

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Cushman 780 TRUCKSTER

• 500 lb. payload capacity • Powered by Cushman Husky 4-cycle engine . . . big vehicle shaft drive • Just ¾c per mile total operating cost

Ask your dealer for a FREE demonstration or write for illustrated literature. Dealer inquiries invited.

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CUSHMAN MOTOR WORKS, Incorporated

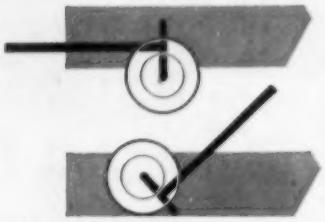
All-steel, adjustable drag

Photographs: Herbert Hadley

By raising the tongue and tilting the drag backward, the all-steel construction can be seen.

The teeth projecting along the bottom of the drag are ⅞" tool steel and are spaced 11⅞" apart. In operation, the 3 rows of teeth are spaced to coverage every 3 inches.

With wheels in an up position for field work, 24 steel teeth break the clods and supply loose dirt for the leveling action of the drag's bottom. Top lever positions teeth. Drawing at right shows how the wheels are raised and lowered



Growing tired of making heavy wooden plank drags which wore out after three years' use, C. H. Blankmeyer and Sons built this all-steel, portable, adjustable drag.

The drag helps save moisture by leaving the seedbed level. The 24-harrow teeth give a fitting action and provide loose dirt for leveling by the drag.

The drag has a 3-way adjustment. The teeth may be adjusted by a lever to a maximum depth of 6 inches. Further adjustments are made by changing the hitch and raising or lowering the wheels.

Handy weight racks are provided for the adding of extra weight. The drag's draft is about the same as that of a disc cultipacker's.

Blankmeyer reports that one wet spot in his field grew the best wheat he had ever raised after fitting the ground with the drag.

Chute built through barn

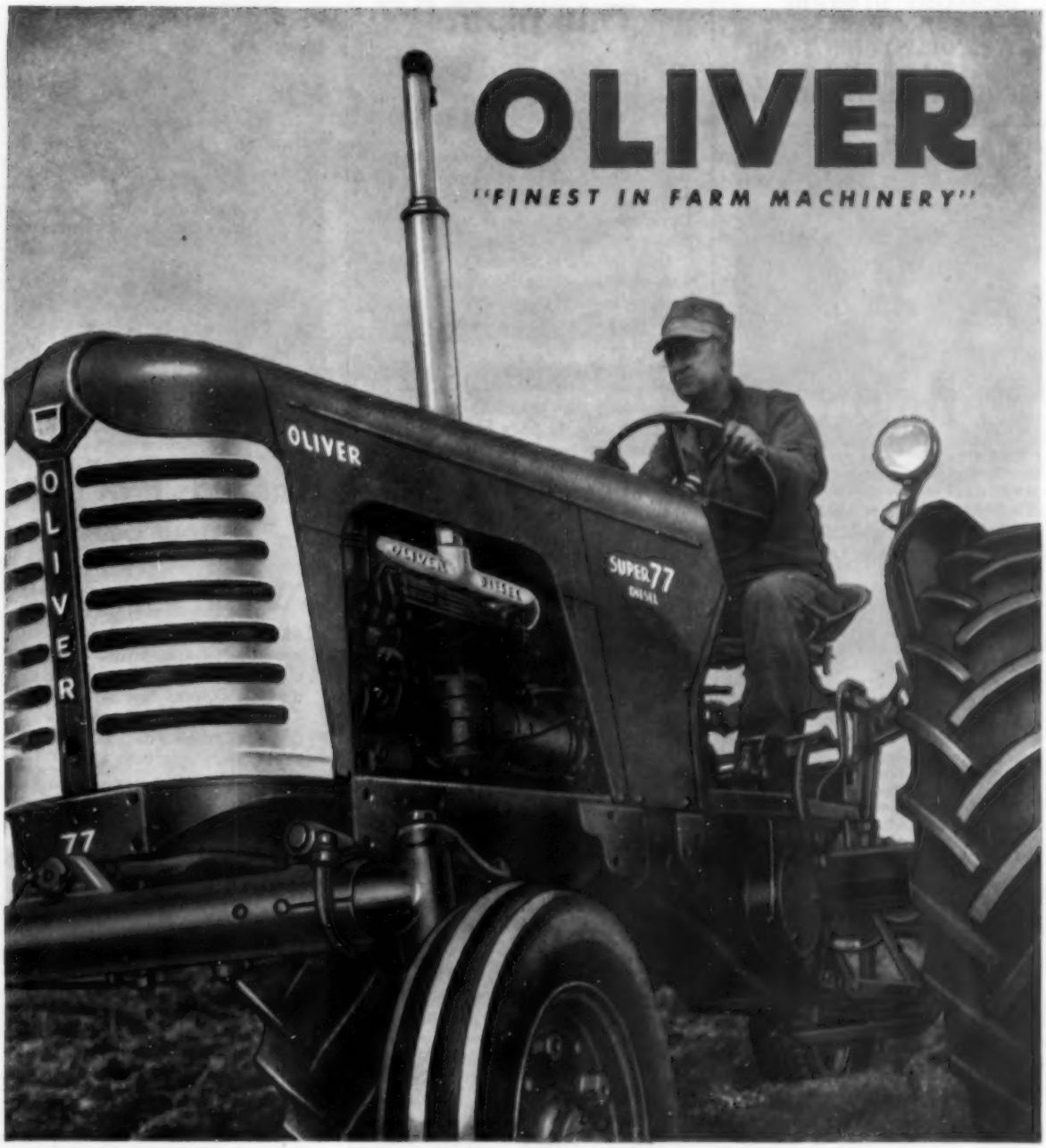
Photograph: Wettach

Walter Reiter of Cascade, Iowa, walks his cattle or hogs right into the truck through this 7-foot loading chute built just off a feeding floor.

He built the chute through a corner of his hay barn without weakening the framing timbers.

In the picture at left, the small gate, which is too narrow for cattle is used by the trucker and others helping load the livestock.

The 7-foot-wide chute is 44 inches high to the top of the concrete wall which retains a dirt fill. A plank bolted to the top of this concrete wall serves as a protective bumper for trucks.



The Super 77 Diesel, three-four plow. One of six Oliver diesels.

Start here to save $2 out of $3

You *do* start saving money every time you start up an Oliver diesel—saving as much as $2 out of $3 on fuel.

First, you use a lot less of it. The job that took ten gallons with a gasoline tractor takes about six with your Oliver diesel. And your price per gallon comes down, too. Total savings depend on local prices—but two-thirds is a fair average.

And while you're starting up the Oliver, notice something else. This is a *real diesel*. You don't need an extra engine to get going—or a different starting fuel. Just press on the starter and you're ready for work.

Maybe your work calls for a tractor in the three-four plow class. Then this Super 77 Diesel is just the ticket. Prefer something smaller? Larger? Fine—Oliver offers you dollar-saving diesel in six different sizes.

Buy any one of them, and you'll get features that no other diesel can match. But *see* them before you buy—see your Oliver Dealer.

The Oliver Corporation
400 West Madison St.
Chicago 6, Illinois

OLIVER

"Ben-Gay brought us welcome relief from painful headaches!"

William E. Bark of Akron, Ohio, says, "My wife and I have been using Ben-Gay for years now to relieve headache pains. Actually, my wife's headaches were sometimes so severe she was forced to go to bed for as long as a day at a time.

"Well, then we discovered Ben-Gay. By rubbing it on the back of the neck and on the forehead, she found that the pains started to ease up in no time. Now both of us count on Ben-Gay for headache relief!"

Why not try Ben-Gay next time a headache bothers you? By applying Ben-Gay *externally*, you'll enjoy wonderfully soothing relief. Rub Ben-Gay gently into the back of the neck, temples and forehead, *taking care to avoid the eyes.* Then relax and feel Ben-Gay go to work. Ben-Gay's world-famous medication acts fast . . . really fast to relieve the pain. Its pain-deadening action starts at once. Almost instantly you'll notice a welcome, soothing sensation. Yes, Ben-Gay acts fast . . . where you hurt!

Big, Lovely, 5" to 12" Blooms This Year!
Hardy easy-to-grow Daylilies at lowest prices. Beautiful blooms. Gorgeous colors May to frost. Lovelier each year. Shipped at planting time. **Order Now** —4 luxurious varieties, ppd. in U.S., **only $1.00** (no C.O.D.) Big new color catalog of Peonies, Iris & Daylilies FREE with order. **OR** send 25c for catalog & get FREE **Dwarf Iris!**
Gilbert H. Wild & Son, Dept. SF36, Sarcoxie, Mo.

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Turn wasteland into profit. Our famous Christmas Tree Growers' Guide tells you how. Write for free copy.
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New Giant DAHLIAS
NEVER BEFORE OFFERED
2 BULBS for 25¢ POSTPAID
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RED CHIEF, LAVENDER BLUE
Grows 12" to 15" flowers on strong, sturdy stems. Separately labelled. Culture included. **Send only 25c for 2, 50c for 4, $1 for 8** and Seed & Nursery Catalog.
R. H. SHUMWAY Seedsman, Dept. 432, Rockford, Illinois

Garden success tip:

Thin plants

The Number 1 fault of beginners' vegetable gardens is crowding, reports the Federal Extension Service of the United States Department of Agriculture.

This failure to thin out the seedlings so that each remaining plant has enough room to develop properly is often due to the gardener's emotional resistance to destroying what he has sowed.

Even with high-germinating seeds it is advisable to sow more than you will have room to mature. Accidents will destroy some plants—and vacancies in a row are hard to fill.

Seeds that germinate slowly—carrots, parsley, and parsnips—should be sowed more thickly than others. These seedlings are feeble and the force of many acting together helps break through the soil and brings the sprouts to the surface.

At first, plants of row crops may be thinned out to stand 1-inch apart. This will ensure each plant room to develop without entangling roots with a neighbor. As they grow, alternate plants should be removed until the optimum spacing is achieved. Many of the excess root and leaf plants can be used on the table. Follow directions on seed packets and in your planting guide for recommended spacings for different crops.

The late Liberty H. Bailey, dean of horticultural teachers, said "thinning is a process of selection, and the best are allowed to remain. It is evident the chances of securing the best are greater when the gardener leaves one plant out of 10, rather than one plant out of 3."

Leaves reveal fertilizer needs

Fruit growers in Michigan are using leaf analysis to determine fertilizer needs in their orchards. The analysis reveals what the tree is getting and what is needed to improve growth and production.

The use of leaf analysis to diagnose nutrient needs is not new. However, only recently have leaf analyses been used in a manner similar to the soil-testing service of experiment stations. Leaf analyses are made by the Experiment Station staff of the Michigan State University on samples collected in midsummer.

After the sample is ground, the leaves are analyzed spectrographically and chemically for 10 essential nutrients. The analysis can detect a shortage of a nutrient prior to the development of severe deficiency symptoms. Also, leaf analyses may inform the grower he is using fertilizers he doesn't need.

Presently apple, peach, pear, cherry, and plum leaves are being analyzed. As soon as possible, grapes, blueberry, strawberry, and raspberry will be added to the list of fruit for which leaf analysis may be used.

The pigs that built a new barn

WHEN Bill Shaw took over the farm from Dad, he knew that sooner or later he would need a modern barn. So he decided right away to put all profits from the sale of pigs into U.S. Series "E" Savings Bonds—for the Shaw's New Barn Fund. Today Bill Shaw's got his modern barn.

Why don't you plan for the future through Savings Bonds? Bill Shaw and millions like him are finding it the best way to save. Three dollars invested today in Series "E" Bonds grow to four in nine years and eight months! What's more, Savings Bonds, easily converted into cash, are actually *safer* than cash. They are registered in your name and may be replaced if lost, burned or stolen.

Ask your banker about Series "H" Bonds if you would prefer interest by check every six months. Your banker can also arrange automatic purchases of Savings Bonds from your account.

When you buy Savings Bonds, you invest in your own and your country's future.

The crop that never fails

U. S. Savings Bonds

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fun-work yard tractor only $299.50

WHEEL-HORSE

This amazing little tractor turns yard work into carefree FUN. Just let Wheel-Horse "Ride-Away" do the work around your own place while you just sit and steer. Does lawn jobs in a jiffy . . . 3-gang mower cuts 5-ft. swath! Clears snow with nary a huff or puff. Plow . . . Cultivate . . . Use any of 22 attaching tools to do *all* yard and garden jobs. This versatile fun-work tractor has 5 forward speeds and a reverse! It's powered by a husky 2½ h.p. (or 3½ h.p.) engine mounted on heavy channel steel chassis. Complete line of garden tractors from 2 to 8 h.p.

22 Tools for all Garden Work

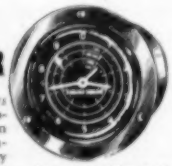
Write for Details and Name of Dealer

Wheel-Horse Products Company
2643-C Dixieway North, South Bend, Ind.

Do YOU know when tractor maintenance is due

Powered equipment lasts longer, gives better service when oil changes, lubrication, overhaul, etc. are done *On Time!* There's one sure way to follow manufacturers' maintenance instructions . . .

HOBBS Engine Hour METER



Records accurately *Hours* and *Minutes* of engine operation. Not a revolution counter, but an electric timing instrument approved by leading manufacturers. Easy to install . . . low price. See your dealer or *Write:*

Pointer type illustrated; now available also in direct-reading models.

John W. Hobbs Corporation
2059 YALE BLVD. SPRINGFIELD, ILLINOIS
World's Largest Builders of Running Time Meters

AIR CONDITIONING

MAKE $3 TO $5 AN HOUR AS YOU LEARN

FREE BOOKS

Experts say that central air conditioning will be installed in 2 million new homes yearly. Already the shortage of mechanics is acute. Many earn to $125 a week and up. New Shop Method trains you at home. You get 23 training kits—build and keep an air conditioner, freezer, refrigerator or milk cooler. Write for 2 FREE BOOKS.

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COMMERCIAL TRADES INSTITUTE
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NEW Welder-Power Combination

Use as a WELDER or Emergency POWER for lights, motors, tools, brooders, deep freeze, etc.

Here's a low cost combination AC Arc Welder and AC Power Generator that you'll use every day and save hundreds of dollars. Generator only—costs less . . . just V-belt it to your own engine, tractor, or other power take off.
HOBART BROS. CO., Box SFE, Troy, O.

LOW COST

DANGER AHEAD!

It's a real life saver—the Delta Flashing Powerlite. Bright red flashing top light. Powerful side spotlight — all in one compact unit! 4-way switch. 6V battery. Less batt. $6.95

Delta Electric Co., Marion, Ind.

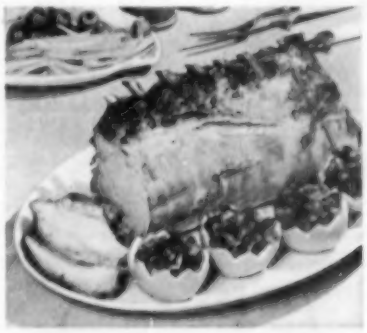
Delta FLASHING POWERLITE ELECTRIC LANTERN

Pork specials

Barbecued Pork Chops With Peaches
(Makes 4 servings)

- 4 loin pork chops, ½ inch thick
- ¼ cup chili sauce
- 3 tablespoons lemon juice
- 1½ tablespoons brown sugar
- 1 tablespoon grated onion
- 1 teaspoon prepared mustard
- ½ teaspoon salt
- ½ teaspoon Worcestershire sauce
- ¼ teaspoon chili powder
- ½ cup water
- 4 canned cling peach halves
- Whole cloves

Brown pork chops on both sides in a little hot fat. Combine the next nine ingredients; pour over chops. Cover and cook over very low heat 45 minutes, or until tender. Turn once during cooking. Stud each peach with 2 cloves. Place peaches around chops, spoon barbecue sauce over them, cover. Cook 5 minutes longer to heat peaches through. Spoon off fat. Serve chops and peaches with sauce poured over them.



Glazed Pork Roast

- Loin or rib pork roast
- Salt and pepper
- 1½ cups brown sugar
- 3 tablespoons vinegar
- 1 teaspoon dry mustard
- ⅛ teaspoon cloves

Season roast with salt and pepper. Place in open roasting pan, fat side up. Roast in slow oven (325°) 35 to 40 minutes per pound or until meat thermometer registers 185°. Half an hour before cooking time is up, cover roast with a mixture of sugar, vinegar, dry mustard, and cloves; or pour over mixture of ½ cup orange juice and 2 tablespoons brown sugar. Garnish with orange shells filled with tangy cranberry relish.

"My DARI-KOOL cooled 1,350,499 lbs. of milk last year --- without an ounce of trouble!"

says
Mr. Howard Hargrove
Timnath, Colorado

DARI-KOOL
BULK MILK COOLER

Model shown above is DIKS-300 300 gallon capacity

Also available in: 100, 150, 200, 250, 400, 500, 600 and 700 gallon capacities

Cools Milk Fast and Economically and NEVER FREEZES MILK

Milk is cooled to well below 38° in less than one hour—assuring a lower bacteria count and better milk. No other cooler can match DARI-KOOL'S fast cooling and low operating and maintenance costs.

DARI-KOOL tanks are stainless steel — inside and out (Not painted black iron). The rugged 10 gauge steel frame and bulge-proof milk tank assure accurate calibration and correct payment for your milk.

Compare them all and you'll choose a farm-proven, guaranteed DARI-KOOL—America's largest selling bulk milk cooler.

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Mail coupon for FREE BOOKLET "How to Select the Right Bulk Cooler"

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Madison 10, Wisconsin

Please send me complete information on DARI-KOOL bulk milk cooling.

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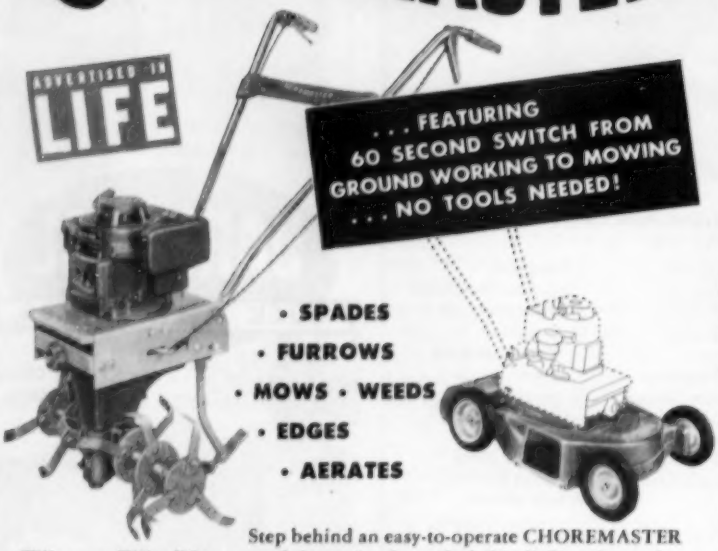
3 easy going TILLERS AND TILLER/MOWERS

CHOREMASTER

ADVERTISED IN LIFE

. . . FEATURING 60 SECOND SWITCH FROM GROUND WORKING TO MOWING . . . NO TOOLS NEEDED!



• SPADES
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• EDGES
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Step behind an easy-to-operate CHOREMASTER Tiller or Tiller/Mower and leave hard work behind! Tough garden and yard chores are done quickly and easily. The Tiller/Mowers add fast MOWING and LEAF MULCHING to this amazing versatility. Get a CHOREMASTER . . . highest quality, reasonably priced!

CHOREMASTER Div., Weber Engineered Products, Inc., 826 Evans St., Cinti. 4, Ohio

1—Heavy Duty Tiller/Mower . . . new, big, rugged! Works ground to 21" wide, 9" deep; mows 21" wide, power propelled.

2—Town & Country Tiller/Mower . . . ideal for suburbanites! Works ground to 17" wide, 7" deep; mows 18" or 21" wide.

3—Heavy Duty Tiller . . . for the BIG garden. Works ground to 21" wide, up to 9" deep.

CONDON'S SILO KING CORN

Best Open Pollinated Ensilage. Grows 8 to 10 feet high; very prolific, one and two ears to the stalk. Thick growth of fodder, big broad leaves from ground to tassel.

Yields 20 to 25 Tons Per Acre
A few acres will fill your silo with the finest silage.

Write today for a Free Sample and copy of our Big New Seed, Plant and Nursery Catalog. FREE

CONDON BROS. SEEDSMEN
DEPT. 320. ROCKFORD, ILLINOIS

VON RUDEN Hydra-Flex 1-MAN, 2-MAN MODELS

HYDRAULIC CHAIN SAWS
uses power you already have!

Smooth, light-weight unit has 12 H.P. cutting capacity. *Safely* trims, fells, bucks! Converts to post hole digger or universal power drive. Fits all tractors . . . Thousands in use . . . . Money back guaranteed!

FREE write for color folder!

HYDRA-FLEX, Inc. • 24 Front St. • Claremont, Minn.

Connect or uncouple pipe from standing position.

Pushing ends together makes a water-tight seal.

OK CHAMPION IRRIGATION

Why Wait for Rain?

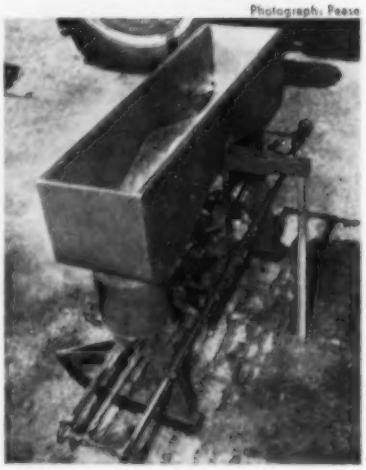
Apply moisture as soon as needed. Save crops – improve quality and yield. Water an acre or a square mile. An OK Champion Irrigation System – the "Quality and Pioneer Line" – can pay for its entire cost the first season and make extra profits for years saving crops.

Layout plans free • Ask for Circular

CHAMPION CORPORATION • 4777 Sheffield Ave., Hammond, Ind.

Planter box extension

Photograph: Pease



This box increases the seed-carrying capacity of a two-row planter when planting corn or soybeans in rows.

Inoculation can be mixed with the seed beans after they are poured into this planter-box extension, which holds more than 2 bushels.

Built by Ivan Trembly of Lineville, Iowa, the over-all hopper measures 12 inches wide, 4 feet long, 12 inches deep at the ends, and 7 inches deep in the center. The sides are of 1-inch lumber. The ends and bottom are of one sheet of heavy galvanized metal, which is rounded at the ends and center to eliminate corners. Holes in the bottom match the planter-box openings.

The hopper is mounted on a bracket of flat iron, which can in turn be attached to the planter frame with just two bolts.

The unit is an excellent laborsaver during a busy planting season.

Easy hay moving

Photograph: Joe Munroe

The manure scoop has many uses on the Crocker Brothers' farm, Valley City, Ohio. Among its extra uses is that of a carrier for baled hay which is fed away from storage

GET SET FOR *Precision Planting*

One — Two — Three!

ALLIS-CHALMERS EASY

1. *SHIFT!* Engine power spaces tractor drive wheels instantly for correct row width.

2. *CLICK!* Attach the planter with SNAP-COUPLER hitch by simply backing the tractor.

3. *PLANT!* Place seed accurately... with short 14-inch drop... up to 5 mph.

Power planting at the correct depth—where soil temperature and moisture are just right—can often boost yields enough to pay for the planter with a single crop.

New Allis-Chalmers *short-drop* drill planters place both seed and fertilizer accurately at modern tractor speeds! Shallower in cool, early spring. Deeper as the soil warms and dries.

Evenly-spaced kernels drop straight through a short 14-inch tube. Fertilizer in precise amounts is placed in side-bands to assure stronger plants.

SEED SELECTOR PLATES have numbered cells. Match your seed to the number that fits. Over 100 plates available for corn, beans, peas, sorghums, cotton and other row crops.

Here's precision planting in 28-inch to 42-inch rows for every seed and soil. Investigate these most-for-your-money planters at your Allis-Chalmers dealer's!

ALLIS-CHALMERS, FARM EQUIPMENT DIVISION, MILWAUKEE 1, WISCONSIN

2-row (above) and 4-row (below) shown with corn and fertilizer hoppers. Combination corn and cotton seed hoppers available.

ALLIS-CHALMERS

SNAP-COUPLER is an Allis-Chalmers trademark.

All-over freshness begins with internal daintiness!

Fastidious women know that no bath, no deodorant, no perfume can make up for a certain kind of carelessness. They make sure of their daintiness. They avoid the risk of "offending" . . . by douching regularly with "Lysol". They know that "embarrassing odor" is caused, primarily, by odor-forming bacteria—the very bacteria that "Lysol" brand disinfectant kills rapidly on contact.

"Lysol" gives internal daintiness you can count on. It spreads into all the folds and crevices, to insure internal cleanliness. A "Lysol" douche leaves you feeling clean and refreshed—with the poise that comes only when you're sure of your personal charm.

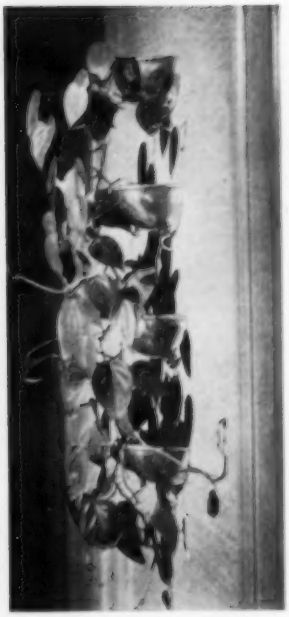
Join the millions of women who know that special, "fresh-all-over" sense of security. Use the new, gentler "Lysol" whenever you douche. Write for free booklet on medically-approved methods of douching. (Sent in plain envelope.) Send name and address to "Lysol", Bloomfield, N. J., Dept. SF- 563.

"Lysol" ®
Brand Disinfectant

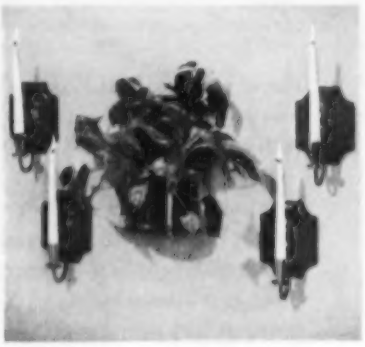
Plants for the kitchen

You can gain more than the individual beauty of the plants when you use them for accessories in the kitchen. Try this formula: Give them a purpose, make them a part of a unit, and select containers from the pantry shelf that enhance the kitchen theme.

Here are 5 ideas using plants as accessories to add a "green thumb" note to your kitchen decorating scheme.



Do you have a narrow wall between doors? Try matching wall planters, hung 4 deep, holding philodendron to give the space a look of individuality.



Maybe you need a wall arrangement to brighten your kitchen eating area. Plop plants into an old-fashioned salt box, add candleholders, and there you are. Add a festive note, eat by candlelight.

Have you thought about showing off a pair of your favorite mugs as bookends? Tuck pretty plants into the mugs and let them hold your cook-book collection handy at your kitchen planning center.

Photographs: Hopkins

Proof that ordinary kitchen objects can be pretty planters. How about turning your big ladle into an attractive vine holder? In this kitchen it has been combined with a collection of brass trivets.

Maybe you're looking for something colorful for the wall. Here, an ordinary wooden scoop becomes a charming planter. The five miniature scoops grouped with planter are good accompaniments.

That night . . . Rugby lost its voice

. . . but, with Western Electric's help, telephone service was fully restored 4 days later!

THURSDAY, 7:20 P.M. – Fire breaks out in building next to Bell telephone office in Rugby, N. D. Eleven minutes later, smoke and flames drive operators from switchboards. Telephone office totally destroyed. All telephones in Rugby and the surrounding communities out of service!

9:00 P.M. – Local telephone crews get five emergency telephones in service.

9:30 P.M. – Western Electric Installation Supervisor 65 miles away–alerted by telephone people in Rugby – continues rush assembly of crew of installers from many points in North Dakota. Orders replacement equipment from Western Electric's Distributing House in Minneapolis.

MIDNIGHT–Truck with switchboards, cable and other equipment leaves Minneapolis.

FRIDAY, 2:00 A.M. – First group of installers reaches Rugby . . . begins preliminary work.

7:00 P.M. – Truck from Minneapolis arrives, after battling severe snow storms.

8:30 P.M. – One section of switchboard already installed and in operation in temporary quarters.

SATURDAY, 6:00 A.M. – Two more sections of switchboard in service. Work continues round the clock all week-end.

MONDAY, P.M. – Service fully restored to all telephones in Rugby and the surrounding communities.

* * *

Seldom has the value of Western Electric as a part of the Bell System been more sharply pointed up than during the Rugby emergency.

To us – as the manufacturing and supply unit of the System – fast work in times of disaster is nothing new.

But here's how this Bell System performance struck the editor of the local paper: ". . . Who else would have the organization, the resources, the know how . . . to work such a miracle as Western Electric and the telephone company worked here in the past few days?"

Western Electric

MANUFACTURING AND SUPPLY UNIT OF THE BELL SYSTEM

Step up to this one–the price is way down

BIGGEST *new* trend in automobiles, you may have noticed, is to the work-and-play wagon of the sort you see here.

And it's a right smart move—for this is just about the handiest thing on four wheels.

But an even smarter move is to the Buick Estate Wagon—*for this is the only such vehicle substantially lowered in price this year.*

Take the beauty pictured here.

It's the '56 Estate Wagon in Buick's lowest-priced Series—the SPECIAL. With its big new price reduction, this Buick is right on the heels of similar models of the well-known smaller cars.

So here, for practically peanuts more, you get power galore—from a mighty 322-cubic-inch V8 engine that hits a new record-high in compression.

You get Buick styling, Buick room, Buick solidity, Buick ride-engineering—and the sizzling new getaway and extra gas savings of Buick's advanced new Variable Pitch Dynaflow.*

With all this, of course, you get the full versatility of the Estate Wagon. That means four-door convenience and six-passenger comfort.

HOW'S THIS FOR HANDINESS!

Fold down either or both sections of the rear seat and you have a covered platform 83 inches long with the tail gate closed—99.6 inches with it open.

It means a level and fully covered loading platform in the rear that can hold a small rowboat and camp equipment, to say nothing of the usual things you'd expect such a handy automobile to carry.

You can even have the folding rear seat, at your option, in a split-section arrangement that lets you carry both rear-seat passengers *and* extra-long "freight."

Thing to do, of course, is to visit your Buick dealer and see this wonderful "wagon"—either in the budget-tagged SPECIAL Series, or the custom-styled and supremely powered CENTURY Series. The price news on both is too good to miss—and the fun too fine to pass up. Why not drop in this week?

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**New Advanced Variable Pitch Dynaflow is the only Dynaflow Buick builds today. It is standard on Roadmaster, Super and Century—optional at modest extra cost on the Special.*

Starting at the top and going clockwise are: Date Tea Loaf, Date Cream Pie, Date Pin-wheel Cookies, and Date Muffins. Four extra-special dates you won't want to miss

Date treats . . . *to shout about*

Here are dates at their very best. You will find them good eating in pies, cookies, quick breads

By Helena Davidson

Date Pin-wheel Cookies (Makes about 45)

- ½ cup butter
- ½ cup sugar
- ½ cup brown sugar
- 1 egg
- 2 cups sifted flour
- ½ teaspoon soda
- ½ teaspoon salt
- ½ teaspoon cinnamon
- 1 6½-ounce package pitted dates, cut up
- ½ cup sugar
- ½ cup water
- ½ cup chopped walnuts

Cream butter and sugars together until light and fluffy. Add egg and beat well. Sift together flour, soda, salt, cinnamon. Stir into creamed mixture and blend well. Chill dough. Roll out on floured board into a rectangle ¼ inch thick. Spread with date filling. Roll up jelly-roll fashion; wrap in waxed paper. Chill thoroughly. Slice about ⅓ inch thick. Place on a lightly greased cooky sheet. Bake at 375° (moderate) for 10 to 12 minutes. *Date Filling:* Combine chopped dates, sugar, and water. Cook over medium heat, stirring occasionally until jamlike. Cool; stir in chopped nuts.

Date Muffins (Makes about 12)

- 2 cups sifted flour
- 3 teaspoons baking powder
- 2 tablespoons sugar
- ½ teaspoon salt
- ½ cup chopped dates
- 1 cup heavy cream
- 1 egg, well beaten

Sift dry ingredients together. Stir in dates. Combine cream and egg; mix with dry ingredients just to dampen flour. Fill greased muffin cups ⅔ full. Bake at 425° (hot) for 15 to 20 minutes. Serve hot with plenty of butter.

Date Tea Loaf (Makes 1 loaf)

- ¾ cup sugar
- 2 tablespoons soft shortening
- 1 egg
- 1½ cups milk
- 1 cup sifted flour
- 2 cups whole-wheat flour
- 3½ teaspoons baking powder
- 1 teaspoon salt
- ½ cup chopped walnuts
- 1 cup chopped dates

Mix together sugar, shortening, and egg. Stir in milk. Blend dry ingredients; add to sugar mixture. Stir in nuts and dates. Pour into a greased 9x5x3-inch loaf pan. Let stand 20 minutes. Bake at 350° (moderate) for 60 to 70 minutes. Cool thoroughly before slicing.

Date Cream Pie (Makes a 9-inch pie)

- ½ cup sugar
- 3 tablespoons cornstarch
- ½ teaspoon salt
- 2½ cups cold milk
- 3 egg yolks, beaten
- 1 cup chopped dates
- 1 teaspoon vanilla

Combine sugar, cornstarch, salt in a double boiler; add milk. Cook over boiling water until thickened; stir well. Cover; cook 15 minutes more over simmering water. Stir a little of this mixture into egg yolks. Return to double boiler; cook 2 minutes more over simmering water. Stir constantly. Add dates, vanilla; cool. Turn into a 9-inch baked pastry shell. Top with *Meringue:* Beat 3 egg whites and 1 teaspoon vanilla until almost stiff. Gradually beat in 6 tablespoons sugar. Continue beating until smooth and shiny. Pile on cool filling. Be sure meringue covers filling completely. Bake at 325° (slow) for about 15 minutes or until meringue is a light golden brown.

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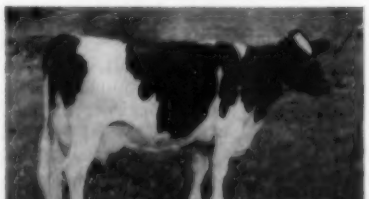
Although corn is the common denominator among feeds, milo, oats, or barley frequently is a better buy for cattle or hogs. Kansas and U.S.D.A. studies show that the feeding value of milo is 95 to 100 percent of corn; barley, 88 to 95 percent as much; and oats, 90 percent as much with beef cattle and equal to corn with hogs. Beef rations should not be more than 50 percent oats, and oats are most effective as 25 percent of the ration of fattening hogs.

Barley and milo equal corn in dairy cattle rations and oats are worth 90 to 95 percent as much as corn.

Giving milo equal feeding value with corn, barley 95 percent, and oats 90 percent, the following tables show what the price of each of those grains should be, compared with corn prices.

	Prices of other feed grains adjusted for weight, feeding value, compared with corn		
Corn per bushel	Oats per bushel	Barley per bushel	Sorghum grain per 100 pounds
Dollars	Dollars	Dollars	Dollars
1.00	0.51	0.81	1.79
1.10	.57	.90	1.96
1.20	.62	.98	2.14
1.30	.67	1.06	2.32
1.40	.72	1.14	2.50
1.50	.77	1.22	2.68
1.60	.82	1.30	2.86
1.70	.87	1.38	3.04
1.80	.93	1.47	3.21

New national milk record



Photograph: Lisanti, Alderman

This Holstein-Friesian cow owned by Howard Sisson, Sherburne, New York, has set a new national milk and butterfat production record for 3-year-old cows.

The cow produced 29,630 pounds of milk and 1,120 pounds of butterfat in 365 days, according to Dairy Herd Improvement Association records. She was milked twice daily and exceeded the previous national record by 4,222 pounds of milk and 139 pounds of butterfat.

The new national champion is from a family of winners. She is a maternal sister to the cow holding the national butterfat record for mature cows—Hamaret Queen Prospector, owned by Archie Meek, Norwich, New York.

If you buy a new truck after looking at only one make, it's like making a deal in the dark. A smarter way to buy is to *"spotlight" real truck value*—weigh and compare competitive claims with these Dodge truck facts:

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GET YOUR DODGE DEALER'S DEAL BEFORE YOU DECIDE

DODGE Job-Rated TRUCKS WITH THE *FORWARD* LOOK

Buy a farm

From page 53

That's a brief story of the progress the Whites have made in farming. But it didn't just happen. In 1941, Dave worked out management principles which he says have helped him get the kind of net income that permits him to buy land without too much fear. His principles are sound for young couples who want to start farming today.

The first and most important principle, as already stated, is as Dave puts it, "Rent a farm that is big enough to make you a sound profit at first. I don't think you can rent on a small farm, or buy a farm of say 100 acres, and ever expect to make enough to pay for it."

"Second," says Dave, "treat your rented land like you would your own. Don't be afraid to add to or remodel buildings or build up the soil. You'll get your money back—and then some." Work out plans with the owner, share the cost. If necessary, put a clause in your rental agreement that you'll get repaid for the unused part of your building investment if you move. If you get a good farm with a sensible owner, this kind of approach makes more money for *both* you and the owner—the owner can't afford to have you move.

Third, use your credit where it works the hardest for you. "I've found I get more return per dollar invested in fertilizer than in any other single place," he says.

Fourth, "Don't waste anything." Dave plans rotations to get the highest return from every acre. That means lots of corn and soybeans. With lots of acres, machinery cost *per acre* is low. He stocks the farms heavily with livestock, fits times of high labor requirements for stock to periods when fieldwork isn't so pressing. This gets more volume per hour of labor, hence higher wages. And he doesn't let buildings lie idle; he converts them to accommodate livestock that can best utilize the space.

Fifth, Dave believes in *diversifying* to counterbalance swings in prices of any one product—but he makes each enterprise *big enough* to make money. His father-in-law raises broilers and takes care of the 20-cow dairy herd; Dave raises hogs, some sheep, and keeps a beef-cattle herd.

> **The highest reward for a man's toil is not what he gets for it but what he becomes by it.** —*John Ruskin*

And sixth, "I do everything I can without hiring outside, high-cost labor." For example, Dave recently built a corncrib with his own and hired men's labor, instead of hiring carpenters. It cost only 20 cents per bushel capacity and is adequate to seal corn under government loan. He can dry corn in it, and unload it with a drag, saving scooping.

His welder is one of his top cost cutters, saving trips to town, reducing breakdown time. And he has built two steel hopper-bottom self-unloading wagons, two grain elevators, a self-unloading wagon with a short auger in the rear for hauling feed and filling feeders, and similar pieces of equipment. These have saved money.

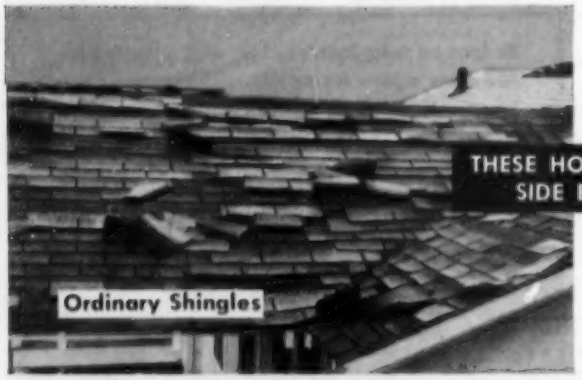
Here are more of Dave's management ideas which have enabled him and his two hired men to get the most from the land.

When Dave moved to the 412-acre rented place in 1945, yields were unappealing. Corn went about 50 bushels per acre.

Dave had all the soil tested. Then, he changed the arrangement of every field—made fields longer, more regular, and more efficient. He picked up 5 extra acres in the process. He went to work with fertilizer, and has been increasing yields continually since 1945.

Here's an example of his fertilizer use: In 1955 for corn, he plowed down 400 pounds of 0-20-20, added 60 pounds of 12-48-0 starter, and side-dressed with 70 pounds of anhydrous ammonia. His oats received 500 pounds of 10-10-10. Pure alfalfa fields were top-dressed with 400 pounds of 0-20-20, and his mixed hay with 400 pounds of 10-10-10. The pay-

Hurricane "Connie" proved Seal-O-Matic shingles stay flat and tight!



THESE HOUSES WERE SIDE BY SIDE

Photos taken at Wrightsville Beach, N. C., right after the hurricane in August, 1955. Ordinary shingles (above) were ruined. Johns-Manville Seal-O-Matic® Shingles (at right) suffered no damage!

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off: corn yields are pushing 100 bushels per acre, other yields are rising.

Dave feels that every farm, whether rented or not, needs to be farmed individually. He uses rotations geared to each farm—with as much corn and soybeans as the land will stand with lots of fertilizer. That gets him top cash returns per acre.

Hogs are the mainstay of Dave's livestock program. He keeps about 60 sows for January and July pigs—when he can be with the sows at farrowing time without interfering with fieldwork. He also hits better markets with this timing. He uses 3-way-cross sows and hybrid boars, aiming for meat-type market hogs that bring the highest price.

He converted a large, and otherwise useless, barn to farrowing pens. Now the barn works for him, instead of being just a tax liability.

The broiler operation, which Dave manages with his father-in-law, is a typical example of the planning and attention to details he puts into the whole farm business.

First, it is big enough they could afford to make it efficient. They market about 4 bunches of 5,000 birds each, per year.

To house the broilers, they built a 36x 120-foot building of home-grown, rough-sawed lumber and concrete blocks, with a metal roof. Dave and his father-in-law did all the work, even poured the concrete. It only cost about $2,600 including labor, and complete with hovers, ventilating fans, and self-watering system.

Automatic watering and feeding keep labor costs very low. That, plus a remarkable feed conversion make broilers a profitable enterprise.

In June, 1955 they sold 4,900 broilers weighing a total of 15,061 pounds, or slightly over 3 pounds each. The birds were only 9 weeks old. Each pound of meat took only 2.45 pounds of feed. Cost per pound of meat was about 18 cents.

They use a new strain of broilers which includes White Rock, Cornish, and other blood. Debeaking helps, too, he believes, as does a new bite-size broiler feed. "The chicks seem to eat a lot more and gain faster when we feed the bite-size feed," he says.

Summing up: The secrets of the Whites' success are not secrets at all. It boils down to these points.

Farming today is a complicated business. It requires many things—keeping records to see where you're going, using them to plan ahead, studying new methods and applying them to your operation, paying attention to details. Dave threw every cost cutter he could learn into the business, headed for top yields and high volume. He got the most out of his money, labor, and land.

He had no special breaks. But where there were special opportunities, he was smart enough to cash in on them.

Getting a start in farming wasn't easy for the Whites—it seldom is. But with ambition, eagerness to learn, and the intelligence to manage, they succeeded.

Scours cost you money—can throw your profits into a tailspin. Best protection against pigs like this is good sanitation—plus hog feeds that contain Arsanilic Acid and an antibiotic.

Now you can control scours!

Latest research shows you can give your hogs the safest, surest protection against bloody scours with Arsanilic Acid and an antibiotic in your feed.

Here's good news for hog growers! There's a new weapon to help you fight bloody scours. It's a *low-cost* feed additive called Arsanilic Acid.

Corn Belt farmers and research men who have used it report that it gives their hogs the safest, surest protection against scours. And, it's done the easy way—right in the hog feeds.

Arsanilic Acid is actually a growth stimulant—gives you such additional benefits as faster gains on less feed plus greater uniformity—fewer runts. *Adding Arsanilic Acid makes even the best feeds better!*

You'll find that feeds already fortified with antibiotics give even better performance when Arsanilic Acid is added. In University of Minnesota tests, pigs receiving a ration supplemented with Arsanilic Acid and antibiotics made 12 to 21% greater gains and showed better feed conversion than pigs receiving the same ration without Arsanilic Acid.

Arsanilic Acid is produced by Abbott Laboratories and is sold to feed manufacturers under the trade name of PRO-GEN®. More and more feed manufacturers are taking advantage of this low-cost additive because it helps to cut feed costs by sparing the requirement for antibiotics.

The next time you buy hog feeds, look for Arsanilic Acid on the feed tag. (In the superior feeds in which it's used, you'll always find it listed.)

If your dealer does not carry feeds with Arsanilic Acid, he can get full information by writing to the Chemical Sales Division, Abbott Laboratories, North Chicago, Illinois.

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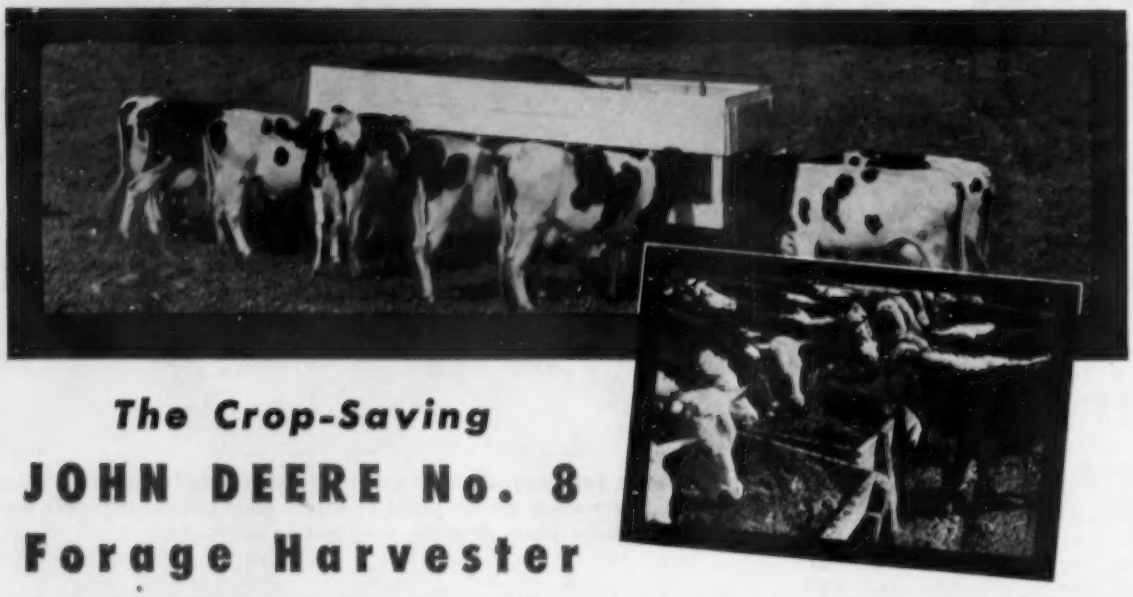

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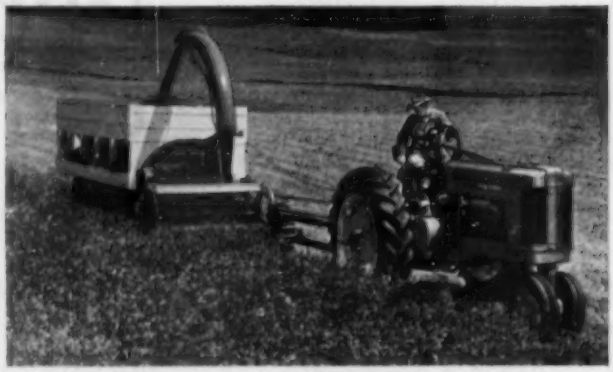

●Here's the John Deere No. 8 Forage Harvester and mower-bar unit chopping a standing hay crop.

●The No. 8 with windrow pickup unit is shown above picking up and chopping cured hay.

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Bull trading costly practice

Bull trading can be costly. Joe Beardon of the Cornell animal husbandry department tells of 4 farmers in the state who found trading bulls between herds and switching bulls on repeat breeding cows in the same herd were costly practices.

One of these dairymen whom we will refer to as Herd "A" bought some mature cows which were infected with Vibrio fetus, the germ which causes the disease vibriosis. Not realizing that he had bought Vibrio-infected cows, he spread the disease to his bull and in turn to the rest of his herd. When his cows failed to conceive he thought his bull was sterile, so he borrowed a bull from Herd "B." This bull did not improve the breeding trouble so he was returned to his owner with a good case of vibriosis.

Then Herd "B" began having breeding trouble and without investigating thought that his bull had become sterile. Herd "B" then borrowed a bull from Herd "C" but found that the cows bred to him failed to conceive also. He was returned along with the disease to Herd "C." The first 19 cows that he bred after returning from Herd "B" failed to conceive. Herd "D" traded a bull with Herd "B" and picked up the disease.

In an attempt to get the infected cows settled, the four dairymen used all the bulls they owned and consequently infected all of them. The disease was spread through the entire herds.

Three morals: (1) When buying breeding-age bulls, be sure that they come from herds with no breeding troubles; (2) do not switch bulls on repeat-breeding cows. If some infectious disease is present, all the bulls used will become infected and the disease will be spread further and faster; (3) where possible, breed cows artificially with semen treated with antibiotics. This can be done using your own bulls or by using semen from an artificial breeding unit. The latter uses antibiotics routinely.

Winter wheat can overcome drouth

Winter wheat can recover from severe drouth as late as early May—after it appears to be damaged beyond recovery.

At Hays, Kansas, on May 2, 1955, continuous wheat was suffering from drouth until the stunted plants had a dry-hay odor. Normally the wheat would be jointing at that time. Three and five inches of water were applied to test plots of the wheat. Within 7 days, wheat in the water plots was dark green and growing well. Rainfall in May was 2½ inches. Plots that got 3 inches of added water out-yielded check plots by 8 bushels an acre. Plots that got 5 inches out-yielded check plots about 18 bushels an acre.

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New calf starter looks promising

A dairy calf starter feed containing one-half chopped alfalfa hay has given growth response almost equal to regular, complete calf starter in preliminary tests at Kansas State College.

Started on the ½ chopped alfalfa hay, ½ starter mixture at 1 week of age, the calves were approximately equal in weight and health to those fed regular starter and alfalfa hay separately, and those on the mixture were eating more than 4 pounds each daily at 8 weeks of age. They were fed the mixture until they were eating 8 pounds daily.

Although calves will eat very little alfalfa hay alone until they are several weeks old, they readily take the alfalfa hay when it is chopped and mixed with the starter.

The Kansas State formula, which can be mixed by farmers for about $2.25 per hundredweight, is as follows:

Cracked yellow corn (or flaked grain sorghum)	600 pounds
Crimped or crushed oats	400 pounds
Wheat bran	200 pounds
Soybean oil meal	600 pounds
Dehydrated alfalfa (coarse chop)	150 pounds
Dicalcium phosphate or steamed bone meal	20 pounds
Salt (trace mineralized)	10 pounds
Irradiated yeast (9,000 IU of vitamin D per gram	0.5 pounds
Molasses*	100 pounds
Alfalfa hay (chopped in hammermill without screen)	1,000 pounds

*Molasses may be omitted, if there are no facilities for mixing it.

Profitable gains on wheat pasture

Lambs would be a profitable addition to many wheat farms, experiments at the Garden City, Kansas, Branch Experiment Station show.

Feed costs per 100 pounds gain of lambs on wheat pasture were $8.54. This compared with $12.28 for lambs on milo stubble, alfalfa hay, and milo grain while on pasture, then sorghum silage, alfalfa hay, and milo grain in dry lot. Another group on milo stubble, alfalfa hay, and milo grain cost $14.16 per 100 pounds gain.

The wheat pasture was figured at 50 cents per head per month, going rate in the area.

The lambs weighed 73 pounds each when they went on the wheat pasture. When taken off, they had gained an average of .35 pound each daily compared with .23 and .16 pound each daily for the other two lots.

MORE Growth PER BAG

than any other nitrogen fertilizer!

You get 36 pounds of nitrogen in every 80-pound bag of ARCADIAN® UREA 45—the most powerful nitrogen fertilizer you can buy in a bag. With UREA 45 you feed crops better and lighten the load you lift to the fertilizer hopper. Pelleted, free-flowing, quick-acting, long-lasting UREA 45 is a labor-saver and a profit-maker!

Four bags feed an acre of corn enough nitrogen for a 100-bushel crop, when you use plenty of balanced starter fertilizer in the row. You can plow down UREA 45, broadcast it, use it as side-dressing, or add it to irrigation water. ARCADIAN UREA 45 resists leaching, feeds soil microbes to build organic matter, and feeds your crops well throughout the growing season.

Two bags feed an acre of wheat all the nitrogen needed to stool out thick and to shoot up plenty of stalks loaded with plump grain. A bag or a little more per acre makes an excellent nitrogen top-dressing for winter grain, and also helps to get grass and legume seedings off to a good start. ARCADIAN UREA 45 feeds crops fast even when the soil is cold.

Three bags feed an acre of apple trees all the nitrogen needed to turn out a big, high-quality crop of fruit. Concentrated, pelleted UREA 45 is quick and easy to spread by hand as well as in ground spreaders or airplanes. UREA 45 penetrates to the root zone quickly, stays locked to the soil until your crop needs it.

Two bags side-dress an acre of tomatoes with all the nitrogen needed for top tonnage. You can spread dry UREA 45 after the first tomatoes have set, or mix it in irrigation water and let the water do the spreading. Use ARCADIAN UREA 45 also for other vegetables, fruits, field crops and pastures. Get UREA 45 now!

FREE: Income Tax Booklet

Without obligation, get your free copy of the J. K. Lasser booklet: "How to Save Money on Your Farm Income Tax." Write TAX BOOK and your name and address on a postcard and mail it to us.

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Pulverizers—sprocket and roller

Your seed bed preparation costs stay low when you use efficient Roderick Lean and Vulcan tillage tools. There's a tool for every tillage need in the Farm Tools Division line—disc, spike and spring-tooth harrows . . . rotary hoes . . . . . roller and sprocket pulverizers . . . fertilizing subsoiler. Ask your dealer for more information or send now for free bulletins.

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PITTSBURGH VULCAN — RODERICK LEAN HARVEY

—the quality line of tillage and materials handling tools

Laughing at Life

Cut off the (Over)head

Nero was talking finances with one of his officers in the amphitheater in Rome.

"We aren't making much money from this building," Nero said. "Any idea why?"

"Yes, I know," replied the officer. "The lions are eating up all the prophets."

A Weighty Thought

Possibly the reason some husbands aren't as "gal-lant" as when they were boys is that their wives aren't as "buoy-ant" as when they were girls.

Doing It the Hard Way

Mrs. Walter Harris is visiting her parents at Bird Island, Minnesota. Harris will dive back to get her, leaving here July 21. —Walla Walla (Washington) Union Bulletin.

Chew This Over

Our tables, chairs, and beds for five
Won't fall apart like some;
And that's because all undersides
Are reinforced with gum.

—D. M. Janke

Means What It Says

Three small boys were discussing the new letter box placed on a street corner in a small town.

"It belongs to the mayor," said one.

"I say it belongs to the preacher," said another.

"No," explained the third, "it can't belong to the preacher because it says 'No Collections on Sunday'."

A Scot in Texas

Returning to his home in New York after a vacation in Texas, McDougall greeted his wife by giving her a mink coat, costly jewelry, and several $100 bills.

"How did you get all these?" she asked.

"Oh, it was easy," McDougall explained. "I was in Houston on Halloween and went out on a fancy residential street playing tricks or treats."

On the Right or Left

There are no allotments on soybeans, hence any producer is eligible to apply for a loan if he presents a warehouse receipt or such beans are stored on the arm.—Alton (Illinois) Telegraph.

Old, old story

"I haven't a thing to play with,"
My little daughter cries,
Although her room is bulging
With toys of every size.

Yes, she's her mother's daughter!
The two are quite a pair . . .
One hasn't "a thing to play with,"
The other "a thing to wear."

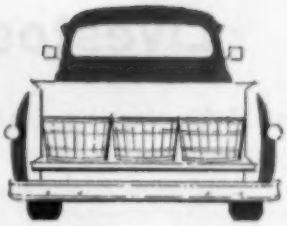
—Hal Chadwick

SUCCESSFUL FARMING

"There ya are . . . drains all fixed . . . gonna rest!"

INTRODUCING

the world's hardest-working easiest-going trucks for the farm!

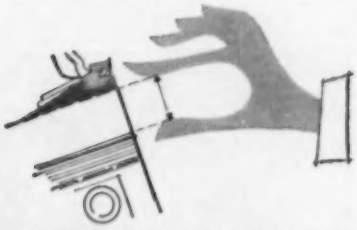


Widest low-floor pick-ups and stakes in the industry

29

BASIC MODELS

in ½-¾-1-1½-2 ton series; 912 options to fit sun-up to sun-down chores



Shortest stroke V8—bar none! High-torque, low-friction payload power

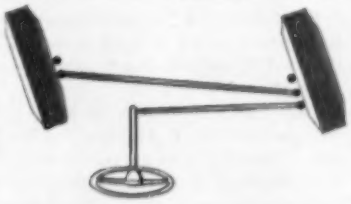
CHOICE OF

FOUR V8s

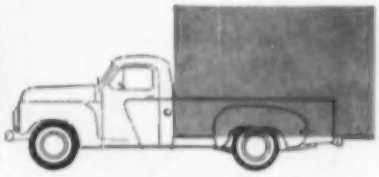
AND 2 SUPER-ECONOMY SIXES

Year-in, year-out savings in gas and oil, maintenance

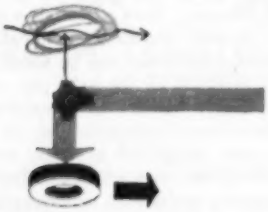
Two-stage rear springs improve the ride under heavy loads



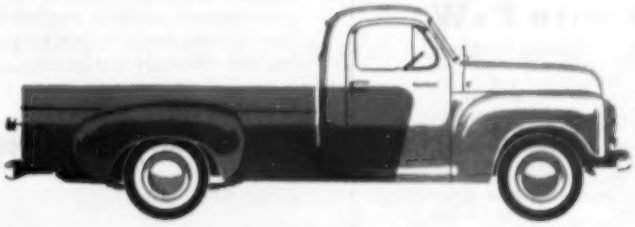
Cross-link, variable-ratio steering absorbs "wheel flight" over bumps



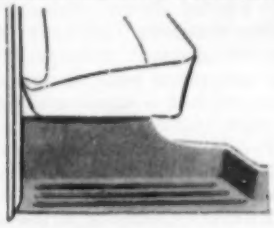
High payload-to-weight design with Studebaker's deep-frame chassis



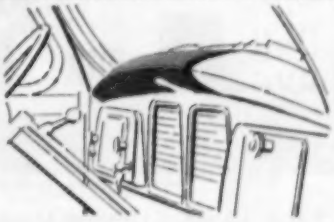
New Twin-Traction differential* for pulling through mud, sand, snow, ice!



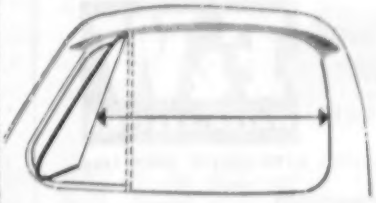
Transtar styling is handsome, practical and functional



Weather-protected safety door step



Sound-conditioned cab* with deluxe comfort, safety features



Shoulder-wide side window for close-quarter maneuvering

*Extra cost equipment

star performers with saving ways

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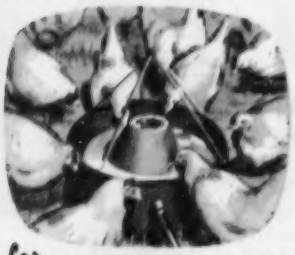
for better health, greater comfort and convenience in your home



for increased production, less work, more profit on the farm . . .

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Surer? Yes, certainly . . . because F&W Water Systems give you precision manufacture and corrosion-proof materials that last for years . . . because F&W design produces pumps that *stay in service*, delivering plenty of water whenever you need it . . . because F&W advantages give you greater efficiency, *more water for your money*. See your F&W dealer before you buy . . . and send for free descriptive folder *now!*

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Livestock news

Antibiotic cleans animal as leptospirosis carrier

One of the serious problems involved in leptospirosis in livestock is found in the fact that a seemingly cured animal often becomes a carrier and spreads the disease through its urine.

Researchers at the Washington Experiment Station found that streptomycin was effective in cleaning up infected urine in carrier animals. When infected heifers were injected with 5 milligrams of streptomycin per pound of body weight—twice daily for a total of 6 shots—no trace of infection could be found in blood or urine 36 hours after the last injection.

High protein not needed to produce lean carcasses

Pigs fed 14 and 11 percent protein rations produce just as good carcasses as those fed higher protein rations with from 15 to 18 percent protein.

That's what University of Minnesota hog specialists L. E. Hanson and W. J. Aunan found in tests the past two years. Well balanced, properly fortified, lower-level protein rations gave as lean a meat, as firm a carcass, and as good a color as high protein rations.

Adding supplements such as vitamin B_{12}, antibiotics, and some of the B-complex vitamins make it possible to step down protein levels and still keep pigs using feed efficiently and gaining.

Convertible shelter makes handy pig creep

Photographs: Edwards, Joe Munroe

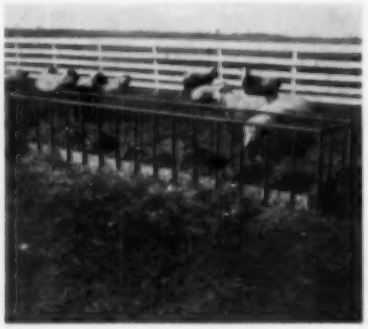
Gerald Johnson of Hamilton County, Indiana, uses hog shelters like the one shown above when he needs extra pig creeps.

Johnson simply hangs a hinged gate, shown in picture, lifts two small doors on the sides of the building, and he's got a creep. The gate keeps sows out, the openings at the side let pigs in.

There are several advantages to using a shelter like this for a creep. You can use open-topped feeders inside, as they're protected from the weather. Pigs can eat inside where it's cooler and where there's no interference from the sows.

Portable sheep feeders built from scrap iron

The portable sheep feeder shown below is put to good use on the Mitchell Kincaid farm, Carroll County, Missouri. The feeders are built from welded scrap pipe.



Bottom of the feeder is built from wood but can be replaced as needed.

Feeders are lightweight and can be moved easily.

Early-weaned pigs go for sugar in pelleted feeds

Better and more palatable pig starters are needed whether pigs are creep-fed while nursing sows or early-weaned. They provide the most practical, economical, and direct way to secure adequate nutrition for the baby pig, say researchers at the Iowa Experiment Station.

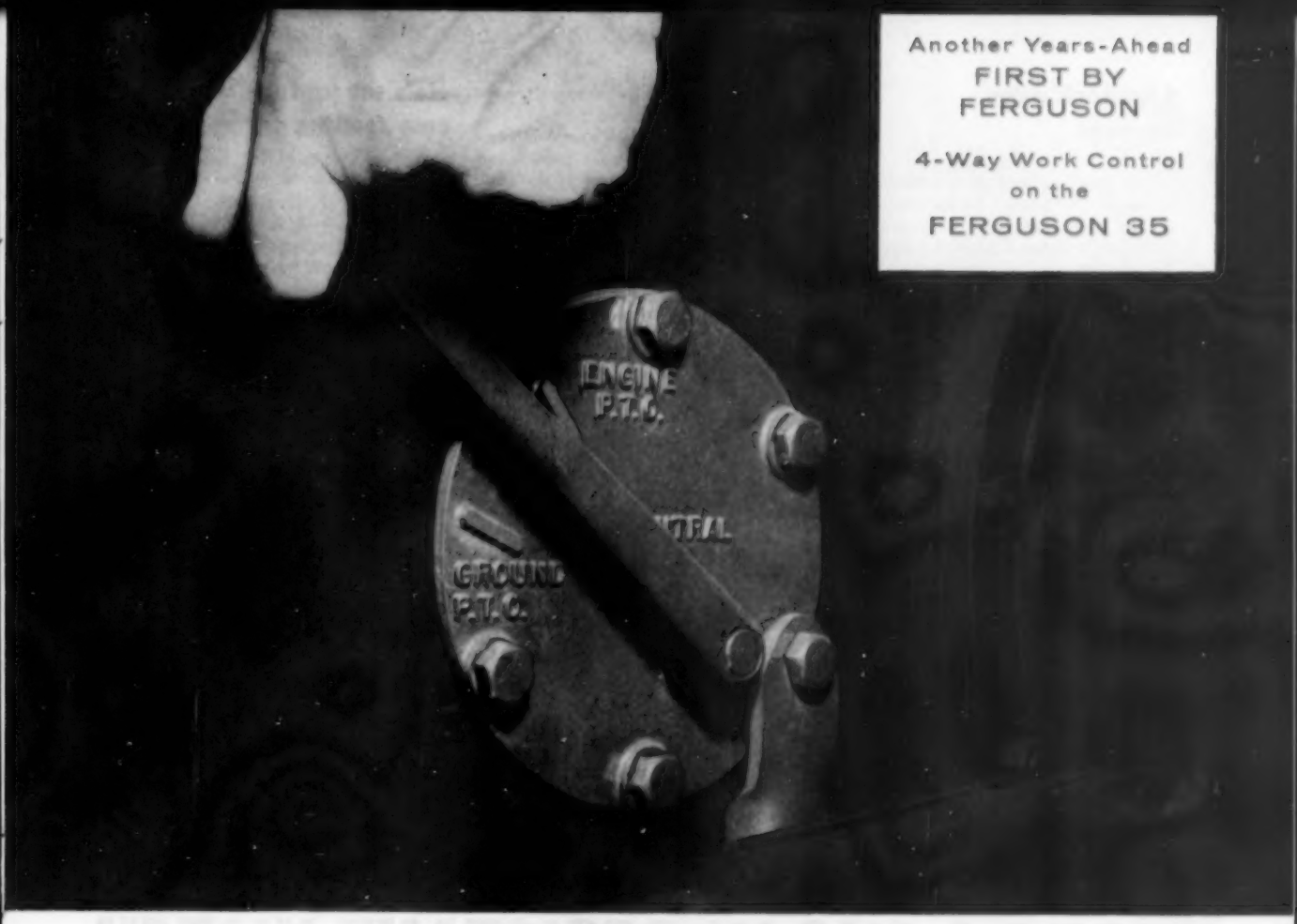
Three experiments involving 328 baby pigs were conducted to study the influence of cane sugar on palatability, feed conversion, rate of gain, and early starter consumption.

In all studies where two or more starters were offered simultaneously, the baby pigs selected starters containing sugar. Pellets containing high levels (20 percent) of sugar were preferred. In all but one test, pellets with the sugar inside were preferred to sugar-coated pellets.

The level of oats groats, in the presence of 15 percent sugar, did not appear to influence palatability since nearly the same amounts of starter containing no oats groats were consumed as starters containing 40 percent oats groats.

Stilbestrol-fed lambs outgain control group

The feeding of stilbestrol and the implanting of progesterone-estradiol increased the rate of gain of 60-pound lambs over a 91-day feeding period. The average daily gain per lamb in the untreated group was .33 pounds per day compared to .38 pounds for the implanted group and .41 pounds for the stilbestrol-fed lambs. [*Turn to page 154*



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FIRST BY
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4-Way Work Control
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How Ferguson Variable-Drive PTO Provide Both Ground Speed and Engine Speed Drive

At last! *One* tractor that lets you operate PTO-driven implements at either *ground speed* or *engine speed*, depending upon the need.

Simply move the lever to "Ground" PTO and you're ready to do a perfect raking job . . . distribute seed or fertilizer evenly in direct ratio to ground covered—because the PTO shaft will always revolve the same number of times per foot of forward travel, regardless of tractor speed.

Or you can select "Engine" PTO and the shaft rotates in ratio to *engine* speed for such jobs as harvesting, mowing, belt work. It's that simple. *It's that convenient!*

And, in addition, you get those other 4-Way Work Control features that have come to mean so much to Ferguson owners: Quadramatic Control, Dual-Range Transmission and "2-Stage" Clutching—all designed to help you farm more, work less.

Ferguson Dealers have had *years* of experience in sales and service of the *original* Ferguson System. Call your local Dealer today for a demonstration of the Ferguson "35" . . . and *feel the difference* on your day-to-day jobs. *Ferguson*, Racine, Wisconsin.

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FOR HARVESTING you'll use the power take-off that's driven directly from the engine.

SEEDING-FERTILIZING utilizes "ground" drive for even distribution at uniform rate.

FOR RAKING put the PTO shift in "ground" position for rake action in ratio to forward travel.

Livestock news

From page 153

The larger amount of corn silage consumed by the treated lambs resulted in greater dry matter intake, indicating that hormone treatment improved appetite. Increased feed intake appeared to be an important factor in the faster gains and the greater feed efficiency of the hormone-treated lambs.

The "net return" per lamb was $2.81 for the untreated group, $3.02 for the progesterone-estradiol, and $3.31 for the stilbestrol-treatment groups.

What are the effects of hormone treatments on finished lambs for market? Cornell tests showed:

1. The hormone-treated lambs shrank more during trucking from the barn to the rail shipping point than untreated lambs, but hormone lambs had a lower shrinkage in rail shipment.

2. The hormone-treated lambs graded lower than untreated lambs, both before and after slaughter. Dressing percentages were slightly lower for hormone-treated lambs.

3. Carcasses from hormone-treated lambs had lower percentages of separable fat tissue and had more moisture in the fat than carcasses from untreated lambs. These differences were not large enough to be statistically significant with the limited number of observations made.

4. Differences in the protein, fat, and ash content of the edible tissues were too small to be of significance.

5. All treatment groups were completely acceptable to the meat packer and their carcasses were valued at the same prices as other lambs of the same grades.

Raise hogs for $10.18 on pelleted barley

You can raise more pork for a dollar by feeding hogs pelleted barley than by feeding them corn or ground barley. Experiments at the North Dakota Agricultural College show that hogs can be raised for as low as $10.18 a hundredweight on a pelleted-barley feeding program.

The experiment of on-the-farm and college hogs showed that the average gilt consumed 344 pounds of pelleted barley for each hundredweight of gain. Average gain of the gilts was 145 pounds.

At a cost of $52 a ton for pelleted barley, the feed costs of the 185-pound hog were $14.41. Add to this $8, the average cost of pigs at 40 pounds—when the feeding program was initiated—and you find that the market-type hog cost $22.41, or $12.10 a hundredweight.

The pelleted-barley low of $10.18 a hundredweight and the average of $12.10 can not be approached by any other feed at current prices, say the North Dakota researchers. Barley, because of its higher protein content, takes a lesser amount of expensive protein supplement than corn when used in a swine ration.

He's set up for easy feeding

Wayne Strong, Martin County, Minnesota, has about 80 head of dairy cattle to feed through the winter. To get the chores done sooner, he has had to simplify his feeding arrangement.

First, he placed hay racks (at the left in picture) right under a door opening to the outside of the barn. A push with the broom and chopped hay falls into the rack.

Photograph: Pease

A 55-ton self-feeding hay shed to the left of the silo cuts down work. The placement of the long bunk next to the upright silo means Wayne doesn't need to push or shovel silage far. One section of the long bunk is a temporary gate which is moved to the bunker silo (foreground of picture) when cattle are self-fed from the silo.

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PRODUCTS OF GT CORPORATION

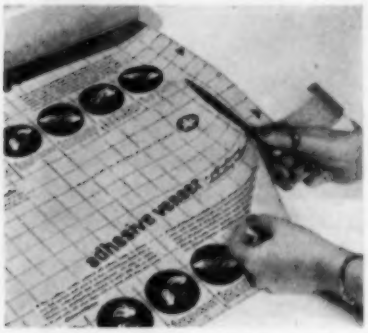
Line drawers with

Adhesive veneer

Line kitchen cabinet drawers with adhesive veneer and solve another age-old housekeeping problem. This veneer simply "sticks" tightly to flat surfaces without tacks or tape. Secret's in an adhesive backing ready to apply soon as the protective paper's peeled off.

Wipe away soiled spots with a damp cloth because of its plasticlike coating.

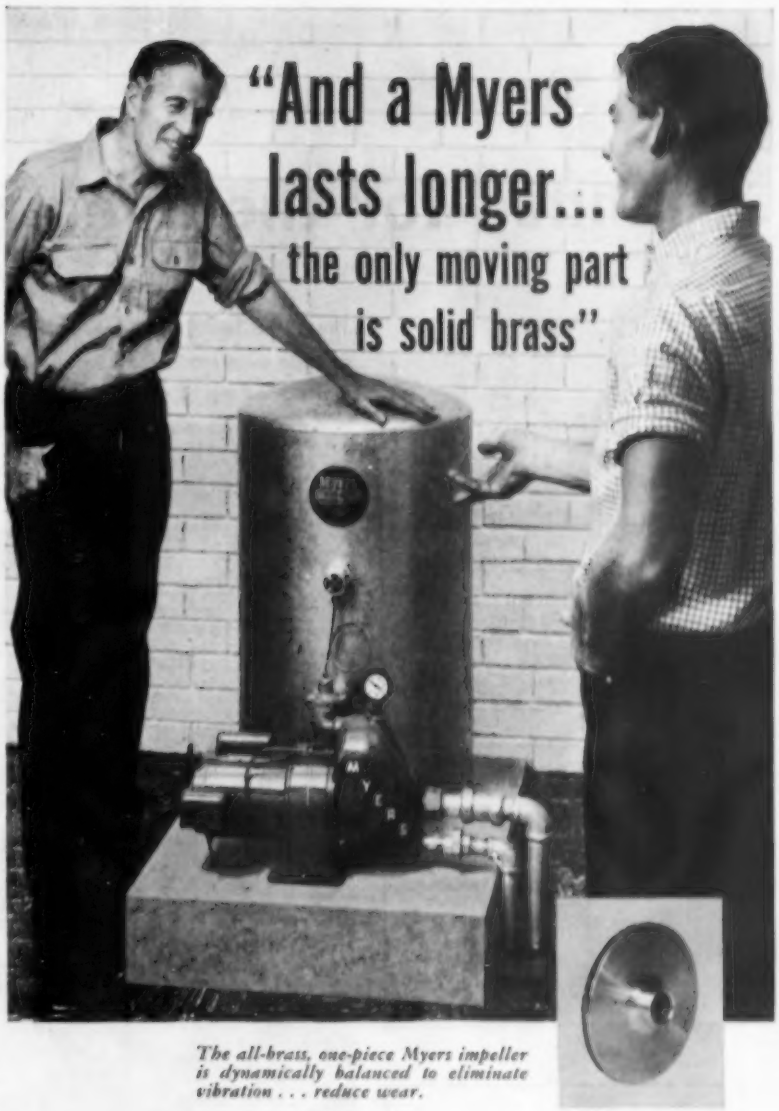
Take inside measurement from bottom side of clean, dry drawer. Paper, covering the bottom side of the drawer, is stamped with 1-inch squares for faster, accurate measuring



After marking roll, lay adhesive veneer on flat surface, bottom side up. Cut piece to exactly fit drawer bottom. No overlapping is needed if drawer is wider than the veneer

Photographs: Stanley

Remove paper backing for 5 inches along width of cut piece. Press exposed part into place, smooth on. Hold applied portion firmly, peel off remaining paper, smooth on



The all-brass, one-piece Myers impeller is dynamically balanced to eliminate vibration . . . reduce wear.

A Myers Ejecto Pump *will* last longer because it has just one moving part . . . a solid brass impeller. Stubbornly rust-resistant, the Myers impeller is dynamically balanced to run perfectly true. This means less wear, longer pump life and whisper-quiet water service.

These and other advanced design and engineering features are standard throughout the Myers pump line. Your nearby Myers pump dealer will welcome the opportunity to show you how every one of these features can benefit you and your family. Won't you call him today?

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Free! Send today for Myers water-requirement computor. Tells at turn of a wheel, how much water your home and family require each day. Send coupon to: The F. E. Myers & Bro. Co., 2203 Orange St., Ashland, Ohio.

Name_____
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City_____ State_____

Planned-for-the-oven meals

There's no last-minute rush when dinner is in the oven. Preparation for any of these oven meals can be done several hours before mealtime. And you can make good use of oven heat since each menu features a meat dish, vegetable, and dessert, all requiring the same temperature. *Turn to page 159 for recipes*

By Mary Ann Buck

Easy-on-the-cook Oven Meal

Chicken Baked in Cream
Lima Stuffed Peppers
Carrot and Celery Sticks
Brown-and-serve Rolls — Butter
Peach Betty
Coffee — Milk

Prepare-ahead Oven Meal

Steak Smothered in Onions
Carrot-Potato Scallop
Fruited Gelatin Salad
Bread — Butter
Gingerbread with Orange Sauce
Coffee — Milk

Busy-day Oven Meal

Barbecued Pork Chops
Parsley Buttered Rice
Glazed Squash Rings
Cabbage Slaw
Bread — Butter
Lemon Custard
Tea — Milk

Easy-on-the-cook Oven Meal

Prepare-ahead Oven Meal

Busy-day Oven Meal

Photographs: Nelson, Photography, Inc.

Floor is Armstrong Embossed Inlaid Linoleum, Style No. 5490.

brick's textured beauty—in carefree linoleum

Do you ever hanker for the charm of old-fashioned brick kitchen floors? How friendly they were, gleaming after their morning scrub! (Scrub? Ah, there was the rub!) Well, you need hanker no more, for here's their modern counterpart—in Armstrong Linoleum. This new white brick design has *all* of the old charm—right down to the embossed mortar lines—and none of the chore, for Armstrong Linoleum never needs hard scrubbing. Occasional washing and waxing will keep this floor bright and beautiful. And spilled things—even grease—wipe up without a trace. There's not a crack where dirt can hide. It's quiet and comfortable underfoot, too, which real brick never was! Beauty . . . practicality . . . they're both yours today, with Armstrong Linoleum, the modern fashion in floors.

New free book, "Decorating Ideas for Today's Living." You also get sketch plan of this kitchen and list of furnishings. Write Armstrong Cork Company, 5603 Chestnut St., Lancaster, Penna.

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McCall Pattern 3491

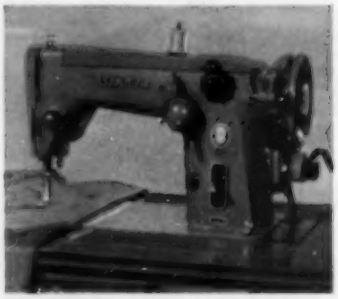
Amazing new Swing-Needle SINGER Automatic brings out the "fashion designer" in you

Now, even with the simplest pattern, you can do the beautifully detailed sewing of an expert seamstress—and create *original* finishing touches—all with the greatest of ease on the new Swing-Needle* SINGER Automatic!

This wonder machine, like all SINGERS, does *the smoothest straight stitching in this wide world—PLUS hundreds of practical, beautiful finishing stitches—completely automatically!*

You'll take pride and pleasure in watching the Automatic blind-stitch hems, overcast seams. You'll discover that there's no end to the lovely decorative stitches you can create to give *personal* touches to your clothes—the children's clothes—your home furnishings!

The Swing-Needle Automatic is the *newest* of many SINGER* Sewing Machines, including both Straight-Needle and Slant-Needle* models.



The new Swing-Needle SINGER Automatic comes in black or beige, in lovely cabinet or portable style. SINGER will give you a series of *free* lessons when you buy your Automatic so you can learn *all* the many wonderful ways to use it.

SINGER SEWING CENTERS

Listed in your phone book only under Singer Sewing Machine Co.

*A Trade-Mark of THE SINGER MANUFACTURING COMPANY.

Oven meals

From page 156

Here's help to plan your time for: Easy-on-the-cook Oven Meal

Prepare chicken and place in covered casserole in the oven 2 hours before mealtime. After half hour of baking, remove casserole cover. One-half hour before mealtime, place Lima Stuffed Peppers and Peach Betty in the oven. Brown rolls several minutes before serving.

Chicken Baked in Cream
(Makes 4 servings)

- 1 3 to 3½-pound chicken, cut in serving pieces
- ½ cup milk
- ¾ cup flour
- 1 teaspoon salt
- ¼ teaspoon pepper
- 6 tablespoons butter
- 1 3-ounce can (¾ cup) sliced broiled mushrooms
- 1 tablespoon finely chopped onion
- 2 cups light cream

Dip pieces of chicken into the milk, then in flour that has been mixed with the salt and pepper. Fry in butter till nicely browned. Arrange the pieces in a 2-quart casserole. Sprinkle mushrooms and onions over chicken. Pour the cream over all, cover, and bake in moderate oven (350°) about ½ hour; then remove cover and bake 1½ hours or until very tender.

Stuffed Green Peppers (Makes 4 servings)

- 2 large green peppers
- 1 1-pound can (1⅔ cups) canned lima beans, drained
- 1 cup canned tomatoes
- ¼ cup finely chopped onion
- ½ cup grated mild process cheese
- ½ cup soft bread crumbs
- ½ teaspoon salt
- Dash pepper
- 2 tablespoons melted butter

Remove stems from green peppers; cut into halves lengthwise and remove seeds. Cook peppers in boiling salted water 10 minutes. Drain. Combine lima beans, ½ cup of the tomatoes, onion, grated cheese, and ¼ cup of the bread crumbs. Season mixture with salt and pepper and heap into pepper halves. Mix butter with remaining crumbs; sprinkle on top of peppers. Place in shallow pan. Pour remaining tomatoes around peppers. Bake in moderate oven (350°) about 30 minutes.

Peach Betty (Makes 4 to 6 servings)

- 2 cups canned sliced peaches, drained
- 2 tablespoons lemon juice
- ¼ teaspoon cinnamon
- 1 tablespoon butter
- ⅓ cup melted butter
- ½ cup brown sugar
- ⅔ cup sifted flour
- ⅛ teaspoon salt
- ¼ teaspoon soda
- ⅔ cup quick-cooking oats
- ½ teaspoon vanilla

Arrange peaches in a greased shallow, 8½-inch round baking pan. Sprinkle with lemon juice and cinnamon; dot with 1 tablespoon butter. Combine ⅓ cup melted butter and brown sugar. Sift flour, salt, and soda together and mix with oats. Blend with the sugar mixture. Add vanilla. Spread over peaches and bake in moderate oven (350°) for about 30 minutes. Serve warm with milk.

Here's help to plan your time for: Busy-day Oven Meal

Prepare Barbecued Pork Chops and Squash Rings so they can be put in oven 1½ hours before mealtime. About 45 minutes before mealtime, put custards in the oven and turn chops. Coleslaw can be made and placed in a covered dish in the refrigerator until rest of meal is prepared; add dressing just before serving to ensure crispness.

Barbecued Pork Chops (Makes 4 servings)

- 4 loin pork chops, ¾ inch thick
- ¼ cup chili sauce
- 3 tablespoons lemon juice
- ¼ cup chopped onion
- ½ teaspoon salt
- ½ teaspoon Worcestershire sauce
- ¼ teaspoon chili powder
- 1 teaspoon prepared mustard
- ½ cup water

Brown chops on both sides in a small amount of hot fat; place in a 10x6x1¾-inch baking dish. Combine remaining ingredients; pour over chops. Bake in a slow oven (325°) for 45 minutes. Turn chops and bake another 45 minutes.

Rice with Parsley (Makes 4 servings)

- 1 cup rice
- 1½ cups boiling water
- 1 teaspoon salt
- 2 tablespoons melted butter
- 1 tablespoon chopped parsley

Place rice, water, and salt into a 1-quart casserole. Cover and cook in a slow oven (325°) for 45 minutes. Pour melted butter over rice and toss with parsley.

Glazed Squash Rings (Makes 4 servings)

- 2 acorn squash, small to medium size
- ½ teaspoon salt
- Dash pepper
- ¼ cup butter
- ⅔ cup brown sugar

Cut squash in rings 1-inch thick; remove seeds. Rub salt and pepper into squash. Bake in covered 3-quart casserole in a slow oven (325°) for 45 minutes. Cream butter with brown sugar and sprinkle over squash. Bake uncovered until glazed, about 45 minutes. Baste with brown sugar sauce before serving.

Lemon Custard (Makes five 6-ounce custards)

- 3 slightly beaten eggs
- ¼ cup sugar
- ¼ teaspoon salt
- 1 teaspoon grated lemon peel
- 2 cups milk, scalded
- ½ teaspoon vanilla

Combine eggs, sugar, salt, and lemon peel; slowly add milk and vanilla. Pour into custard cups. Bake in pan of hot water in slow oven (325°) until knife inserted in custard center comes out without mixture adhering, about 40 to 45 minutes. Serve warm or cold.

[*Turn to page 160*

"A painful strain almost ruined my vacation!"

Victoria Lamb of Westmont, Ill., says, "I was about to board a train when I suffered a nasty fall, straining my back so painfully that I was scarcely able to walk. With assistance, I managed to get on the train, wondering what I could do about the dreadful pain. Then I remembered I had a tube of Ben-Gay in my bag. I thought it was worth a try, and it certainly was! After an application of Ben-Gay, I made myself as comfortable as possible. The next day, I found the pain had eased amazingly. I was able to walk without pain and arrived home feeling relieved and ever grateful to Ben-Gay."

Thousands of people, like Miss Lamb, have found Ben-Gay to be amazingly effective in relieving the pains of muscle strain. Here's why: Ben-Gay contains up to two and a half times more of two famous pain-relieving agents than five other widely offered rub-ins! Ben-Gay acts two ways. First, extra blood is brought coursing to the painful area. Second, a pain-deadening action starts at once. The painful muscle strain starts to ease up almost instantly. So keep Ben-Gay on hand always for fast relief from muscle aches and pains. Ben-Gay acts fast where you hurt!

20 *Bulbs - Deluxe Mixture* GLADIOLUS 25¢
REGULAR VALUE $1.00
50th anniversary offer
Size ¾ to one inch across "Not Bulblets." Guaranteed to bloom this summer. 10 or more varieties in this mixture. **Send 25c in coin for this $1.00 Value,** and we will include Big Bulb, Plant & Seed Catalog. **FREE**
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Oshkosh, Wisconsin

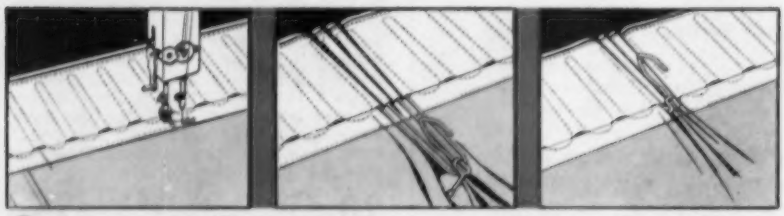
"Anyone can make perfect pinch-pleated draperies this quick, easy way,"

says Anne Davis, Judd's consultant on interior decorating.

New Judd Pleatmaster®

TITE-PINCH HOOKS and NO-TWIST TAPE

Rounded base of hook automatically gathers material. Tite-Pinch arms hold it firmly in place. No tacking necessary. Just follow these three simple steps:



1 Sew tape across top of material.

2 Insert hook tips in pre-sewn pockets, slip Tite-Pinch arms over two center folds.

3 Slide hooks up into pockets.

Ideal Companions — Make your pleated draperies with handy Judd Pleatmaster hooks and tape — then hang them on this versatile No. 6817 Traverse Rod. Extra socket holds second rod for glass curtains — or second set of draw draperies.

SEND FOR COLOR BOOK

by Anne Davis, 32 pages of authoritative suggestions for every type of window . . . more than 100 room illustrations in color! Easy "how-to-do-it" instructions. Send 25¢ in coin.

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Please send me your new book on window decoration. I enclose 25¢ in coin.

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H. L. JUDD DIVISION, The Stanley Works STANLEY Wallingford, Conn.

Oven meals

From page 159

Here's help to plan your time for: Prepare-ahead Oven Meal

Fix your favorite fruited gelatin and chill for several hours before mealtime. Prepare Steak Smothered in Onions and the Carrot-Potato Scallop so they can be placed in the oven 1½ hours before mealtime. Open oven once about 45 minutes before mealtime to put in gingerbread. See package directions for exact baking time. Orange Sauce can be made at the same time as the gelatin and reheated or prepare it just before serving.

Steak Smothered in Onions

(Makes 4 servings)

¼ cup flour
1 teaspoon salt
⅛ teaspoon pepper
1½ pounds round steak
2 tablespoons fat
3 medium onions, sliced
1 cup hot water

Combine flour, salt, and pepper. Cut round steak into serving-size pieces. Sprinkle steak on one side with half of flour mixture and pound it in thoroughly. Pound remaining flour into the other side. Heat fat in a heavy skillet, add onions, and cook until lightly browned. Remove onions. Add meat; brown well on both sides, adding more fat if necessary. Place meat on rack in skillet and put onions on top of meat. Add water; cover. Cook in moderate oven (350°) for about 1½ hours, or until meat is tender. Add more water if needed to keep meat from sticking to pan. Serve with onions piled atop the steak.

Carrot-Potato Scallop

(Makes 4 to 6 servings)

¼ cup butter
¼ cup flour
2 teaspoons salt
⅛ teaspoon pepper
2 cups milk
2 cups potatoes thinly sliced
2 cups carrots thinly sliced
½ cup diced celery
2 tablespoons chopped onion

Melt butter; blend in flour, salt, and pepper. Stir in milk gradually. Cook, stirring constantly over medium heat, until mixture thickens and comes to a boil. Arrange a layer of half the potatoes, then a layer of half the carrots in a greased 1½-quart casserole. Sprinkle each layer with celery and onions; repeat layers. Pour white sauce over all. Bake in moderate oven (350°) about 1½ hours.

Orange Sauce and Gingerbread

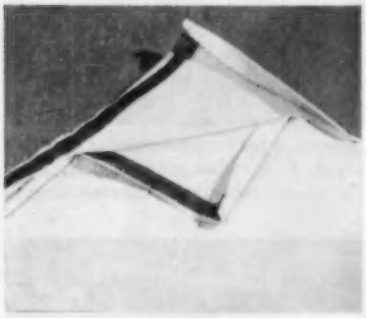
1 tablespoon cornstarch
¼ cup sugar
1 cup orange juice
½ cup raisins
1 teaspoon grated orange peel
Gingerbread, packaged mix

Mix cornstarch and sugar; add orange juice and cook until mixture thickens, stirring frequently. Add raisins; cook until sauce becomes translucent, about 5 minutes. Add peel and serve hot over gingerbread. For gingerbread: use a packaged mix in an 8-inch square pan.

Sew like a professional

Waistline seams

Like to have every dress you make have that "custom look"? Then, use professional finishing touches instead of just plain seams. On the waistline seam, using tape will pay off in the way the dress fits, and the way the skirt hangs. Use this method in the next dress *you* make.



Cut seam tape 2 inches longer than your own waist measure. Measure ¼ of tape, pin to center-front skirt seam. Measure on tape ½ waist measure, pin this point at center-back seam. Ease skirt to tape between pins. Repeat for front and back panels. Make sure tape, side seams are even at placket

Stitch tape to skirt before fitting bodice to skirt. This reinforces waistline seam and makes sure skirt fits waist before additional seaming is done. Stitch from front to back

Photographs: Hopkins

Pressing is just as important here as it is in any other seam. After bodice and skirt are joined, the waistline seam is pressed up—this keeps bulk at a minimum at the waistline and makes certain seam will stay straight

Make ready-to-use starch INSTANTLY for 1¢ a quart

(medium starch solution)

Discover the ease...the economy of NIAGARA® the instant starch that gives perfect results

The woman who switches to Niagara is a very special sort of woman... strictly a 1956 model! She likes the new ways, the quick ways, the easy ways to do things. And she's an expert on getting more for her money.

When you buy Niagara you are not paying for water. You do not have to carry home heavy bottles. You just swish Niagara Starch in cold water... it's ready to use... instantly!

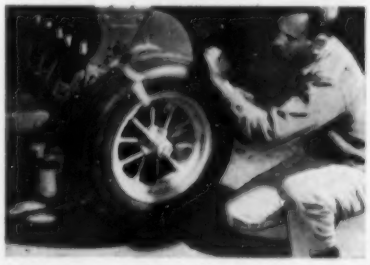
And Niagara is the only starch that dissolves instantly in cold water... and STAYS DISSOLVED. It is precooked, gives you perfect results... no white streaks or spots, even on dark cottons. Next time...NIAGARA for you.

How to calibrate a

Grain drill

Determine the circumference of the drive wheel. It is radius multiplied by 6.28. Or, you can measure the distance around.

Jack up drive wheel, remove seed tubes from furrow openers, catch seed in cans. Use tire mark to count wheel revolutions.



Determine number of wheel revolutions per acre. Multiply circumference of wheel and seeding width, then divide into 43,560.

Photographs: Hufnagle

Set feeding rate lever, rotate wheel at 48 rpm. Weigh grain, reset lever if rate is off. Note if the drill is seeding evenly.

All new!

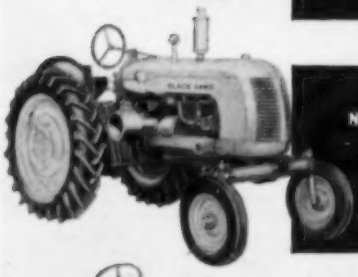
Black Hawk

America's Greatest Tractors!

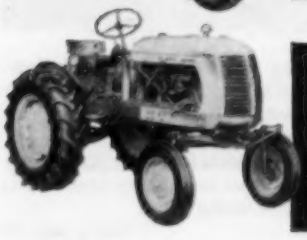
New Black Hawk Golden Eagle
A big, 4-plow diesel, at a price every farmer can afford.

see the famous "Yellow and Red" fleet

New Black Hawk "50"
Does the impossible in 4-5 plow work. Diesel or Gas.



New Black Hawk "35"
A husky 3-plow plus tractor. 198 cu. inch engine.



New Black Hawk "20"
Finest 2-plow tractor – low silhouette – 140 cu. inch engine.

Come see them! You'll like the bold racy distinction of the new yellow and red color styling. You'll find new power and lugging ability to cope with every job . . . "new-car" handling ease . . . independent live power take-off . . . fingertip hydraulic controls . . . a new comfort ride seat . . . a built in cigarette lighter . . . and even a radio, as optional equipment.

Yes, this is a new trend—in tractor performance—in tractor values. It's the Cockshutt trend, introduced by this great new Black Hawk line of 7 models—diesel and gas—ranging in power from the popular 2-plow "20" to the big, heavy-duty 5-plow "50".

Before you buy any tractor—TRY A BLACK HAWK. First in performance, quality, economy and in TRADE-IN VALUE, too.

See your Black Hawk-Cockshutt dealer now—for the best trade-in ever.

Black Hawk
by Cockshutt

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NITRAGIN

Inoculation Pays **BIG** in Every Kind of Farming

SOYBEANS
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LEGUMES

More Benefits than Meet the Eye

The extra nitrogen plant food made from air by NITRAGIN inoculation may increase legume yields 50% or more. Only ⅓ lb. extra clover seed, for example, or 18 lbs. more hay per acre pay for NITRAGIN inoculation. Whatever the yield increase, other benefits are just as valuable. Grade improvement of seed, protein enrichment of feed, added resistance of crop to pests and weather hazards, soil benefits that stimulate future crops—all pay you big.

NITRAGIN is triple-tested, every can dated and guaranteed. Get NITRAGIN in the bright orange can from your seed dealer; drop us a card for free legume leaflets.

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Accurate, Durable and Complete for Terracing, Ditching, Irrigating, Tile Draining, Grading, Running Lines, Turning Angles and etc.

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Anyone can operate a BOSTROM Level by following the simple direction booklet included with each Instrument. We manufacture 3 models; Farm Level, Contractors Level, Convertible Level. All BOSTROM Levels are sold on the guarantee of satisfaction or money back. WRITE TODAY for literature, prices and name of our distributor near you.

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RADIATOR SPECIALTY CO.
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Poultry

New medium-size turkey has market appeal

To meet the market demand for a breed of turkeys between the Mammoth Bronze and the small Beltsville White in size, Maryland Experiment Station has produced a new white breed by crossing the Beltsville and the Bronze breeds—and then selecting for a uniform white color.

The new Maryland Medium White turkey is reported to make a 4-pound broiler at 8 weeks of age—or a 20-pound roaster at 26 weeks. Production is averaging about 100 eggs per hen per season.

Ventilation needed to keep henhouse walls dry

There's something wrong with the ventilation in the henhouse when the roof and side walls sweat and the litter becomes damp.

Fresh air, which will be heated by the body temperature of the chickens, must be provided to carry off moisture and odors. But at the same time, direct draft on the birds should be avoided. Ventilation is not effective unless it carries out the excess moisture.

Insulation will pay dividends by keeping the house cooler in the summer and warmer in winter. The roof, or ceiling, will need better insulation than the walls since more heat is lost through the roof than any other part of the building.

Rubber stair treads darken hen nests

Rubber stair-tread material, cut to fit regular hen nests, gives the effect of community nests by darkening them on the Raymond Schneider farm in Andrew County, Missouri.

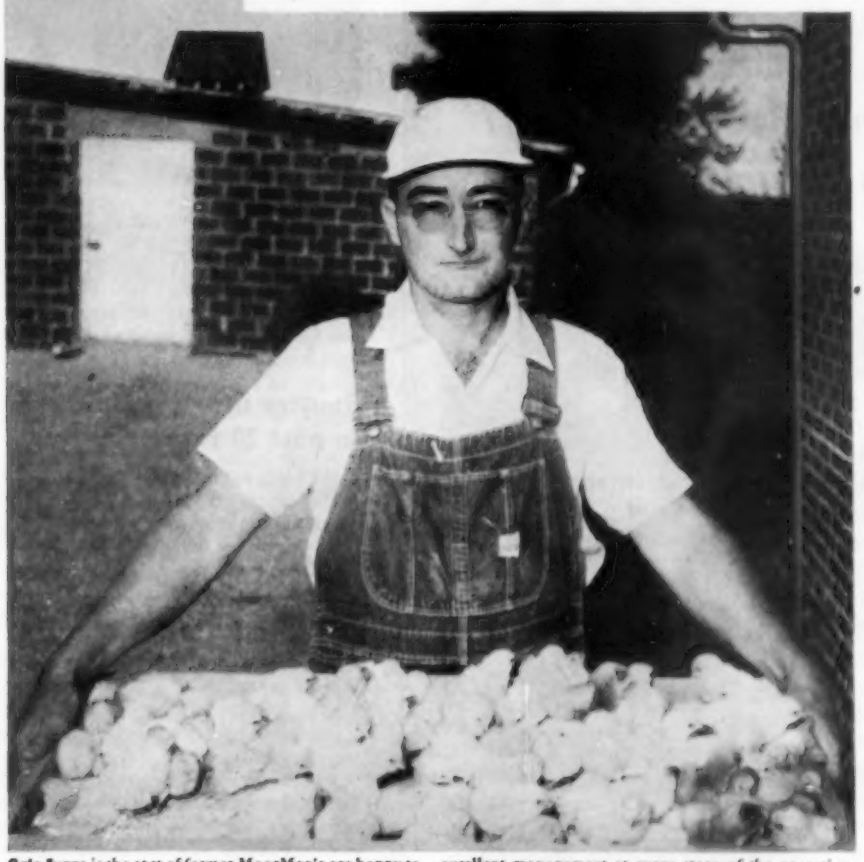
The Schneiders were having difficulty with dirty and broken eggs in the open-

front nests. They covered the fronts, leaving small slotted openings for entrance. Since then, broken- and dirty-egg problems have been eliminated.

The Schneiders find them just as satisfactory as other community nests used in their 3-unit laying house.

[*Turn to page 166*

"Our out-of-pocket feed cost for 2918 chicks for 10 weeks came to only 6.25c a pound"



Gale Evans is the sort of farmer MoorMan's are happy to have among its customers. He has found the business of marketing 60,000 broilers each year requires careful advance planning. We are proud to credit him with excellent management at every stage of the operation. Complete utilization of a maximum amount of his own home grown feeds and accurate records of feed cost are "musts" with Gale, and his father.

"We raise 60,000 broilers a year," say Gale and Claude Evans, Pike County, Indiana. "Eighteen months ago we started feeding MoorMan's CoxiCurb* Mintrate* for Starting and Growing Chicks and we're having excellent results. With Mintrate our birds make fast gains. They keep in good health. And, most important, the cost to produce a pound of broiler is low. The way we figure it out each 50-lb. bag of Chick Mintrate gives us a bonus of 5 extra lbs. of broiler.

"We raise our broilers in broods of approximately 3,000 birds each. The starting ration is 2 parts corn and 1 part Chick Mintrate. At 8 weeks we change to 3 corn and 1 Mintrate. We grind our own corn in a burr mill to a meal consistency. Here's the total feed used for a recent brood.

17,200 lbs. corn @ $1.29 bu.	$395.60
7,400 lbs. Mintrate @ $8.00 cwt.	592.00
Total feed cost	$987.60

"When we sold the 2918 birds at 10 weeks they averaged 3.24 lbs. each. That gave us a total of 9,478 lbs. meat for $987.60 total feed . . . an average feed cost of only 10.41c per pound. We used 24,600 lbs. of feed for a conversion rate of 2.6 pounds of feed per pound of chicken.

Gale and Claude Evans feed MoorMan's Chick Mintrate because, combined with their own grain, it gives them a high-energy, low-fiber ration. For Mintrate is more than a "feed." Mintrate is a completely mineralized, vitaminized protein concentrate with an antibiotic supplement added. It enables your chicks to extract more of the nutrients from your good yellow corn . . . pushes chicks along fast right from the start, where most economical gains are made.

Ask your MoorMan Man about the low-cost, thrift-producing rations you can build with your own yellow corn and Mintrate. If he doesn't call soon you can get complete details by dropping a postcard to Moorman Mfg. Co., Dept. R65, Quincy, Illinois.

Why Chick Mintrate makes more chicken on less feed at low cost!

1. **You BUY only ⅓ of your chick starter—you RAISE the rest.**
2. **Your corn and Chick Mintrate make the highest-energy, lowest-fiber chick starter procurable.**
3. **Chick Mintrate helps you get more feed value from YOUR own grain.**
4. **Chick Mintrate contains an ingredient to help prevent death loss from coccidiosis.**
5. **Chick Mintrate contains a supplement with high antibiotic activity.**
6. **Chick Mintrate supplies Vitamins A, D and the B Vitamins; also contains Vitamin K to protect birds against possible hemorrhagic conditions.**
7. **Thousands of flock owners have proved Chick Mintrate's efficiency.**
8. **An easy-to-use concentrate. Combining corn and Mintrate is simple, easy.**

MoorMan's*

Since 1885—71 years of friendly Service

COXICURB

CHICK MINTRATE

—one of 10 mineralized protein and vitamin concentrates that helps livestock and poultry make better use of home-grown foods.

*Trademark Reg. U.S. Pat. Off.

How would you like to

collect the income from another farm

without buying an acre?

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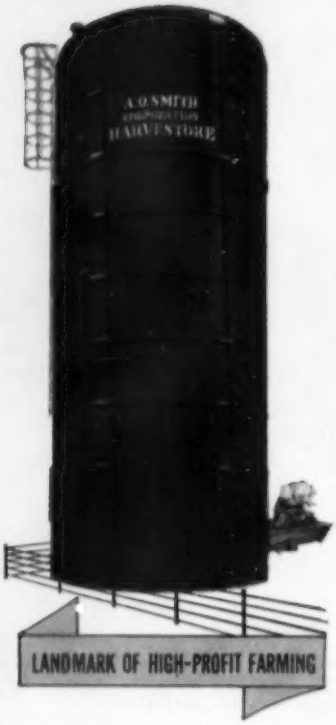
Farm Profit Plan shows you the way!

OWNERS tell us it's like enjoying the profits of two farms at the cost of one. Yes, that's what they say about high-profit farming with A. O. Smith Harvestore.

Built around exclusive Harvestore "live" storage, this remarkable plan virtually prohibits "lazy" acres . . . helps you get far more profit from your land, feed crops, harvesting and handling. Slashes feed costs! Saves on labor!

Space does not permit us to tell you the complete story here. Get all the money-making facts — mail coupon for your free, illustrated copy of Harvestore Farm Profit Plan.



Exclusive "Live" Storage Features

EXCLUSIVE mechanical bottom unloader combines with A O. Smith mechanical feeder for unique in-the-top, out-the-bottom "live" storage . . . processing rather than just holding feed.

EXCLUSIVE glass-on-steel inside and out . . . ends costly maintenance.

EXCLUSIVE sealed construction locks out oxygen, retains high feed values.

Through research . . . a better way

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HARVESTORE DIVISION
Kankakee, Illinois

A. O. SMITH CORP.
Dept. SF-36, Kankakee, Illinois

Please send me the Harvestore Farm Profit Plan booklet and the name of my nearest dealer.

Name .....

Town ..... R.F.D. .....

County ..... State .....

Poultry

From page 164

Compartment-type laying nest gives privacy, darkness

Here's a community-type nest arrangement that provides semiprivacy and darkness. Yet it avoids much damage to eggs by several hens walking over them.

The nest has a hallway down through the middle for the hen to enter. She then

hops over a board into one of 6 nests, the nests being large enough for 2 at a time.

The eggs can be gathered by raising a hinged board on either side. The photograph shows the structure open on one side for gathering. A lath reel keeps hens from roosting on top.

Poultry nutrition gains in past 20 years

Here is a summary by American Feed Manufacturers Association on the latest developments in poultry nutrition.

When new high-energy feeds were substituted for old low-energy feeds in a Standard Egg Laying Test, hen day production went from 217 average eggs per bird to 244. At the same time, feed required per dozen eggs dropped from 5.06 to 4.33 pounds on Leghorns and from 5.36 to 4.66 for an all-breed average.

Mortality and egg production pauses were lowered.

In 1930, pullets on good range would be raised to sexual maturity on 25 pounds of feed per pullet. Recently one researcher raised pullets to sexual maturity without range on 19 pounds of feed per pullet.

Broiler figures are equally interesting. Following table compared 1934 ration with 1955 ration for broilers:

	1934	1955
Live weight (10 weeks)	2.00	3.10
Feed efficiency (10 weeks)	3.45	2.48
Feed price per ton (farm basis)	$99.03	$102.96
Market value (1,000 birds)	$500.00	$775.00
Income over feed costs	$158.35	$379.22

Turkey production according to following figures falls along same lines:

	1930	1955
Weeks to market age	34 wks.	24 wks.
Average weight (both sexes)	20 lbs.	20 lbs.
Pounds of feed per pound gain	6.5 lbs.	4.0 lbs.

Dirty litter major cause of dirty eggs

Why do poultrymen produce so many dirty eggs? Records show the litter condition is the major cause.

The surge of interest in improving the quality of eggs is bringing the dirty-egg problem to the front as never before. Competition for the better markets is stimulating strong interest among producers in major egg-producing area.

Records from the Iowa Poultry Demonstration Flock reports show that the percentage of dirty eggs varies much more as a result of the litter condition than from any other factor. There were four times as many dirty eggs where the litter was wet as there were where it was dry. The percentage figures were 34 percent dirty eggs for wet litter, 14 percent for damp litter, and 9 percent for dry.

The report also shows that the number of times daily that eggs are gathered is important but plays a less important role than litter condition. The majority of the group gathered their eggs either two or three times a day. The average percentage of dirty eggs was 21 percent for twice a day and 13 percent for three times.

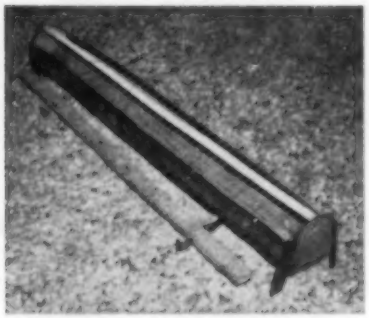
Newcastle vaccination using B1 vaccine

B1, the mildest form of Newcastle disease vaccine used today, produces an excellent immunity when properly applied.

Of great importance is the age of the chick. A current experiment with a replacement flock of 58-day-old chicks, whose passive immunity had disappeared, showed that a single administration of B1 vaccine in the drinking water gave a solid immunity for at least 6 months, with the probability that later tests would show longer immunity.

When administered in the drinking water, this Newcastle strain showed no evidence of spreading to susceptible birds, which at the time of vaccination were placed in pens on either side.

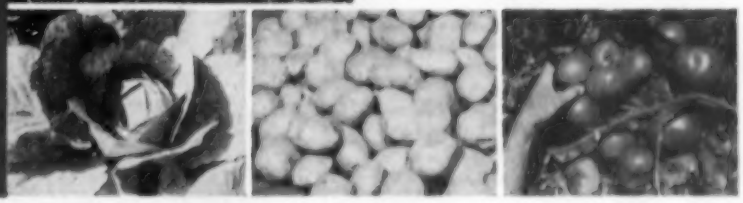
Woven wire in feeder cuts down feed waste



Feed waste can be practically eliminated by using woven-wire strips in the feeder like the one shown above. Fill the hopper, then grab the wire frame, shake, and bring it to the top of the feed. Birds can't bill out the feed.

For
PROLIFIC
Yields

Use
PROLIFIC
Fertilizer



Are you missing big crops because something is missing in your soil? To make vigorous growth and produce abundant yields, plants not only must have plenty of nitrogen, phosphorus and potash. They also require secondary plant foods and small quantities of many minor or so-called "trace" elements.

Most soil tests do not show deficiences in minor elements. Yet they are just as vital to your crops as vitamins are to your own growth and development. If they are missing from your soil, your crops cannot produce the yields and profits you want.

Many leading farmers use V-C PROLIFIC Fertilizer to make sure their soil is well supplied with everything that crops need for big yields. V-C PROLIFIC is a superior blend of nitrogen, phosphorus and potash, fortified with secondary plant foods and important minor elements.

Try using V-C PROLIFIC this year! It can make a big difference in your yields and profits. You'll like its low cost and its easy-drilling quality. Your crops will like every plant food it contains. See your V-C dealer today! Be specific! Buy PROLIFIC!

VC FERTILIZERS ®

PROLIFIC
THE FERTILIZER WITH Extra PRODUCING POWER!

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KILLS CORN BORERS by pulverizing, mulching and firming soil on cornstalks that have been plowed under—corn borers are smothered in ground. Saves time, labor, horsepower, preparing ideal seedbed. Leaves surface mulch without grooves to help prevent washing. Seedbed conserves moisture—more seeds grow. Helps increase yields of all crops. SEEDBED MAKER has 3 in 1 Combination spring tooth harrow, sprocket packer and mulcher with seeder available. Leaves soil in ideal condition for any grass, clover or grain seed. Write today.

New Bear Cat COMBINATION Grain and Roughage Mill

No. 4A

TRAILER MOUNTED FOR POWER TAKE-OFF. Has traveling feed table. Especially designed for grinding or chopping larger quantities of loose or baled hay and any roughage. Comes with or without Trailer Mount and P.T.O. Both cutter knives and heavy swing hammers. Grinds any feed, wet or dry, snapped or ear corn, roughage bundles or baled flakes with farm tractor. Write for details.

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Successful shortcuts®

Build them yourself; save time and dollars

Range shelters, 12′x12′, have been used by Clair Limbeck, Clayton County, Iowa, for turkeys and pigs. Rafters are 1½x2s spaced 3′ apart. Metal roofing extends to within 2′ of the 2x4 sills.

Ends are cut out of 15-gallon drum to make this handy pig feeder. Chains hold it a few inches above the floor. It was built for inside feeding by G. Vern Remy, Chickasaw County, Iowa.

Double-decker milk cart is said by Ivan Huser, Adams County, Indiana, farmer, to save him a lot of time.

It's mounted on rubber-tired implement wheels for ease in pushing. The bottom part has room for 2 or 3 milk cans, the buckets, and the strainer.

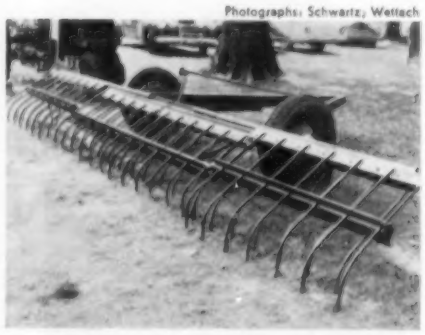
The top part is equipped to support the milkers.

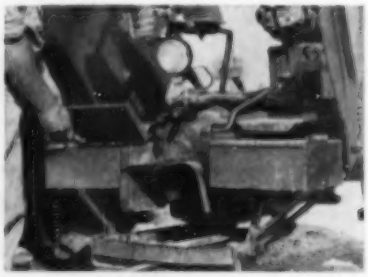
Photographs: Schwartz, Wettach

This trailer-harrow is designed to pull behind a disc to smooth the ground ready for planting, in one operation.

When E. R. Morris, Story County, Iowa, builder of the device, is ready to transport the unit, he lifts the outer gangs up and over.

The trailer is built from a discarded automobile frame and is balanced so Morris can easily move it about. The total width of the harrow is 16½′.





These tool boxes double as steps. Built by Stan Mathews, Henry County, Iowa, they mount on his tractor.

The boxes were built with heavy metal, bent and folded, where possible from one sheet. Then the seams were welded.

The brackets supporting the boxes can be easily unbolted and both boxes lifted off. Deck plate serves as a cover for each box. Braces run to drawbar frame and are made of heavy rods.

CASE "300"

Refreshingly NEW...from hood to hitch

12 SPEEDS

Daring 3-plow Design

Dazzling New Beauty

Dynamic Performance

- ★ **Tripl-Range Transmission . . . 12 speeds forward**
- ★ **Safety-Lock Hydraulic System . . . duo-control**
- ★ **Cam-and-Lever Steering . . . new short turning**
- ★ **Powr-Torq Engines . . . gas, LPG, distillate, diesel**
- ★ **Constant PTO . . . separate traction clutch**
- ★ **3-Point Eagle Hitch . . . stabilized depth control**
- ★ **"Tell-Easy" Instrument Panel . . . 8 indicators**
- ★ **Powr-Shift Rear Wheels . . . plus sliding hubs**

Breath-taking in its beauty, the Case "300" brings to life your dream of an ideal 3-plow tractor. New Powr-Torq engines . . . both gasoline and diesel . . . pull full load all the way down to half speed, with a peak of extra torque at two-thirds of rated RPM to take you through tough spots without shifting.

In the heavy-tillage range . . . 4 MPH and less . . . Tripl-Range transmission gives you not two or three but *five* gear speeds. From 4 to 9 MPH . . . the range for light tillage and fast cultivation . . . Tripl-Range gives you another *five* speeds. Then there are two transport speeds up to 20 MPH, and three reverse speeds.

Visit your Case dealer. See for yourself the handy hood with trunk-lid top and sliding doors . . . air cleaner mounted inside rounded grille, clean and cool . . . low rubber-suspension seat and roomy platform . . . all the features that make the Case "300" a delight to drive.

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Get full facts on the Case "300" . . . also on Case Income Payment Plan. Check here or write in margin any tractor or implement that interests you. J. I. Case Co., Dept. C-776 Racine, Wis.

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- ☐ 4-plow "400" Tractor
- ☐ 5-plow "500" Diesel
- ☐ Mounted Implements
- ☐ Tractor Loaders
- ☐ Income Payment Plan

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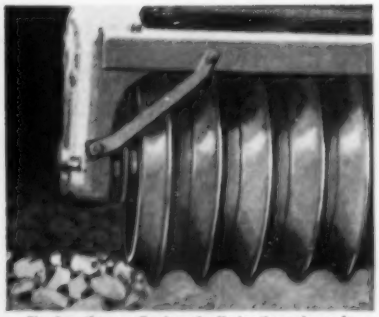
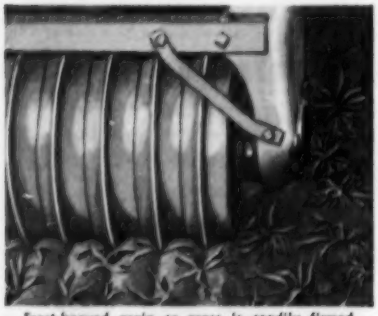
Address _____

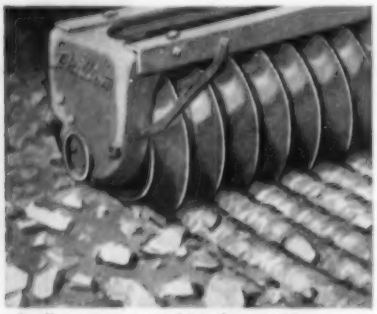
One pass with a heavy Brillion Pulverizer breaks down clods faster — eliminates discing.



Firming the seedbed and eliminating air pockets gives more plants a chance to grow.



Frost-heaved grain or grass is readily firmed into place, without compacting.



Small stones are pressed into the ground to prevent damage to cutter-bars on mowers and combines.

BRILLION PULVERIZERS give plants a better start 4 ways

As the illustrations above show, the Brillion Pulverizer is one of the most versatile, most profitable tools you can own. It not only works at high ground speed, but also assures more bountiful crops.

It stands to reason—a firm, well mulched seedbed, compact underneath, clod free on top, makes more nutrients available to growing plants, encourages root systems to anchor and expand.

Brillion Pulverizers have the weight, strength and stability to hold to their work at fast tractor speeds . . . to resist the twisting pressures of working rough, rolling ground.

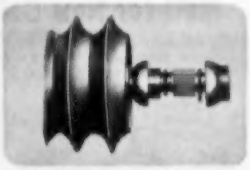
Special ball and socket mounting of the axles—extra strength in every part—means an even job of penetration, pulverizing, and firming over the full length of the roller. Sealed roller bearings carry the axles and make pulling easier on power and fuel.

See your Brillion dealer for complete information. Choose from over 120 different sizes and models —single, double and triple gang. For folder write The Brillion Iron Works, Dept. P-1-3, Brillion, Wis.

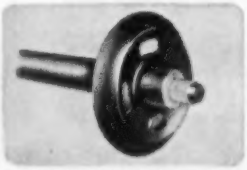
Brillion PULVERIZERS

IF BRILLION MAKES IT, IT MUST BE GOOD

End brackets are designed to provide a ball and socket action. This permits the axle to float and maintains straight alignment, even on rough or uneven ground.



Self-aligning, dust-sealed steel roller bearings assure easier draft and longer life than ordinary bearings. Extra width reduces wear, shock and eliminates binding under all field conditions.



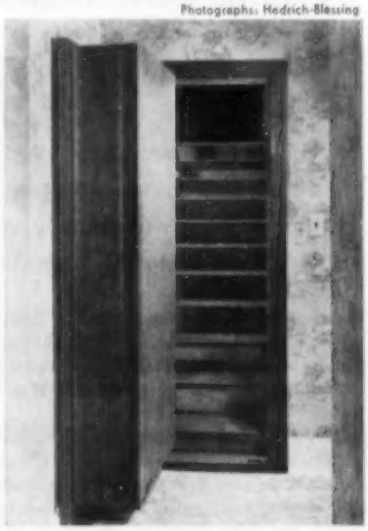
Exclusively Brillion, this 4" pipe axle provides greater weight and strength to meet today's fast tractor speeds. This construction permits use of long-wearing dust-sealed steel roller bearings.

It's an idea!

Want to convert a door to attic or basement into usable storage space? Then take a look at this idea from an Ohio farm home. You could do it!

Gun closet and drawers are cleverly concealed in this space in the hallway of Edward Frechtling farm home, Hamilton, Ohio. The cabinet top holds rack for guns. The drawers below store shells and other hunting equipment. Looks like a built-in cabinet until you open it, as shown below. It's the door opening to attic.

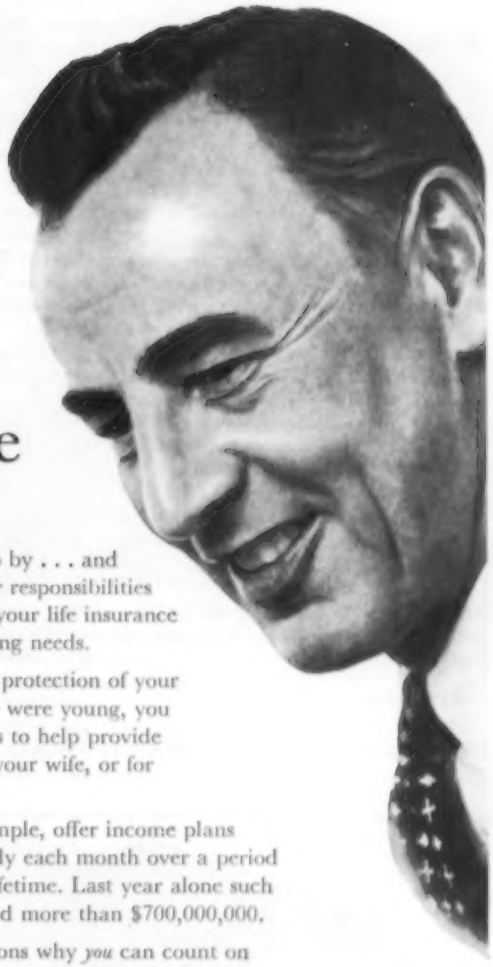
Photographs: Hedrich-Blessing



Opened, you can see how it really works. By building the cabinet so it clears the door frame and floor, it makes storage in a spot where you wouldn't expect it! It's an idea for finding that little bit of extra space for linens or other storage you can always use in your home.

When someone's counting on you...

you can count on life insurance



As the years of your marriage go by . . . and you pause for a fresh look at your responsibilities . . . it's comforting to know that your life insurance stands ready to meet your changing needs.

Just as you could count on the protection of your life insurance when your children were young, you can count on these same policies to help provide security in later years . . . for your wife, or for *both* of you when you retire.

Many policies, for example, offer income plans that bring a check regularly each month over a period of years . . . even for a lifetime. Last year alone such income payments totaled more than $700,000,000.

This is one of the reasons why *you* can count on life insurance.

Most policies give you a choice of several income plans. Your life insurance agent will be glad to explain how these various plans work, and help you arrange your life insurance policies to fit your needs.

You'll also find helpful suggestions in the new booklet, *Your Life Insurance—and How to Use It.* Your free copy will be mailed promptly; simply send your name and address on a postcard to Dept. SF-1.

Yours free!

Institute of Life Insurance

Central Source of Information about Life Insurance

488 MADISON AVENUE, NEW YORK 22, N. Y.

Test-tube feeds

From page 26

Surfactants

What they are: Surfactants, or surface-active agents, are chemicals that dissolve or disperse in water and reduce surface tension. They are widely used in industry to enable the mixing of dissimilar materials, such as oil and water, and to cause liquids to spread out in a thin film over surfaces.

How they are used: There are now hundreds of these surface-active compounds. Some of them stimulate growth when fed to poultry and swine. However, all surfactants do not stimulate growth. Considerable research is now being carried out to determine which compounds are useful, and at what levels they should be fed.

A promising class of surface-active compounds is now being tested for their ability to prevent or alleviate the development of "frothy" bloat. It is believed they either burst the bubbles that cause frothy bloat, or else they simply prevent the bubbles from forming in the first place. The basic causes of bloat are still not well understood.

Thyroxine

What it is: This hormone, produced by the thyroid gland, regulates the rate of metabolism of all body tissues.

How it is used: Some research workers have found that feeding thyroxine, or iodinated casein, improves sex drive and sperm production in rams and bulls. Others have failed to find beneficial effects. Thyroid therapy may also be useful in preventing the decline of fertility in rams during hot weather.

Thyroprotein

What it is: Thyroprotein is a synthetic compound that stimulates the actions of the hormone produced by the thyroid gland in the normal animal. It is usually prepared commercially by the iodination of the milk protein casein or of some other protein.

In the normal animal the thyroid hormone regulates the basal rate of metabolism. An excess of the thyroid hormone increases the rate of metabolism, causes faster breathing, quickens the rate at which the heart beats, and causes nervous irritability. Too little of the hormone causes the opposite effects.

How it is used: Most cows fed small quantities of thyroprotein during the declining stage of lactation respond by producing more milk. However, its use has not become a general practice. Along with increased milk production, thyroprotein causes both increased heat rate and increased respiration rate, which may be detrimental to the animal.

At present, thyroprotein feeding probably finds its best use in large commercial herds where a rapid turnover of cows is normally expected.

Thiouracil

What it is: It is a drug that impairs the ability of the thyroid gland to produce the thyroid hormone. Feeding thiouracil lowers the metabolic rate, thus producing the opposite effect of thyroprotein.

How it is used: It is reasonable to assume that lowering the metabolic rate might allow swine to fatten more readily. Many experiments do show that increased gains and more economical gains can be obtained in swine by feeding thiouracil during the last 4 weeks of the fattening period.

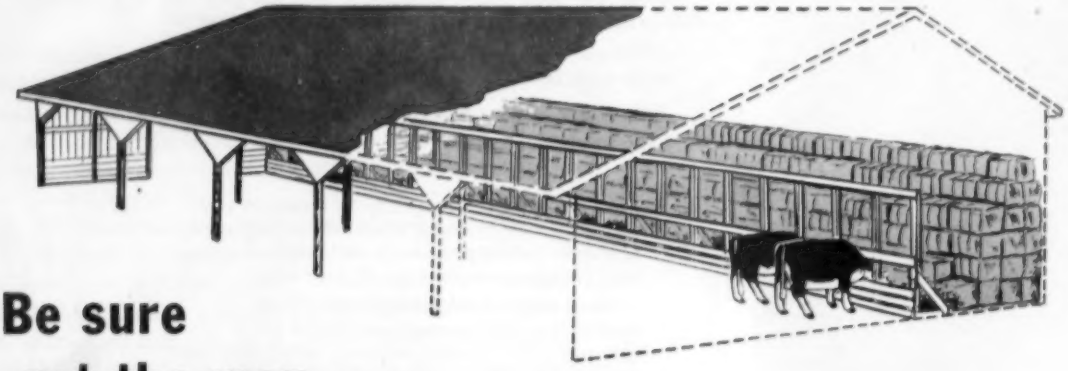
However, two difficulties have limited its general use: (1) The problem of adjusting the level of thiouracil to the individual animal and (2) the problem of timing to obtain an increased deposition of fat without suppressing the growth rate of bones and muscles.

Hydrocortisone (Compound F)

What it is: This hormone is also produced by the adrenal glands and is chemically closely related to cortisone (see page 28). It has also proved effective in the treatment of ketosis in dairy cattle.

ACTH

What it is: This hormone is produced in the normal animal by the pituitary gland. ACTH acts as the driving force for the adrenals. In other words, it regulates



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the rate at which the adrenals produce cortisone, compound F, and other hormones. ACTH is obtained from the pituitary glands of slaughtered animals.

How it is used: ACTH is very effective in the treatment of ketosis in cattle. When it is injected into a cow with ketosis it causes the cow's own adrenals to produce more cortisone, which in turn elevates the blood-sugar level and causes a decline in blood ketones.

The growth hormone

What it is: The growth hormone is one of the many hormones produced by the pituitary. In laboratory experiments, truly "giant" rates have been produced by the administration of this hormone. It especially stimulates the growth of earlier maturing tissues such as the skeleton and muscles, making it of particular interest in swine raising.

How it is used: Recent experiments show that injections of this growth hormone during the growing period of hogs tend to produce a leaner carcass. It has also been found that the pituitary glands of a leaner type of hog naturally contain more of this hormone than hogs of the "lard type." This is of special importance as the demand for meat-type hog grows. Several experiments also show that growth-hormone injections stimulate milk production of both cows and ewes.

As yet, this hormone cannot be used on a practical basis. Too little of it is available. The preparation is somewhat toxic when given over a period of time to swine, but toxicity has not been noted in cattle. However, we may expect to hear more about this hormone in the future.

Valeric acid

What it is: Valeric acid is one of the unidentified factors required by the bacteria in the rumen to break down the fiber in the feed rapidly.

How it is used: Research on valeric acid and closely related substances is still too limited to predict whether it might be generally added to certain types of rations to stimulate the breakdown of fiber. Some interesting developments in this field can be expected.

Progesterone

What it is: This hormone is produced by the corpora lutea or "yellow bodies" which form in the ovaries after the egg is shed in each estrous cycle. One of its functions in the normal animal is to prepare the lining of the uterus to nourish the fertilized egg.

How it is used: Progesterone injections at the time of breeding have been used to increase the conception rate in repeat-breeder cows free of the known reproductive diseases.

Limited trials also show that it might be effective in the treatment of cystic ovaries. Recently it has been used to alter the length of the estrous cycle and to change the time at which the egg is shed in sheep, swine, and cattle. The implantation of pellets containing both progesterone and estrogen has been shown to increase the rate of gain in lambs.

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NOW HE HAS A Sheppard DIESEL SD-4

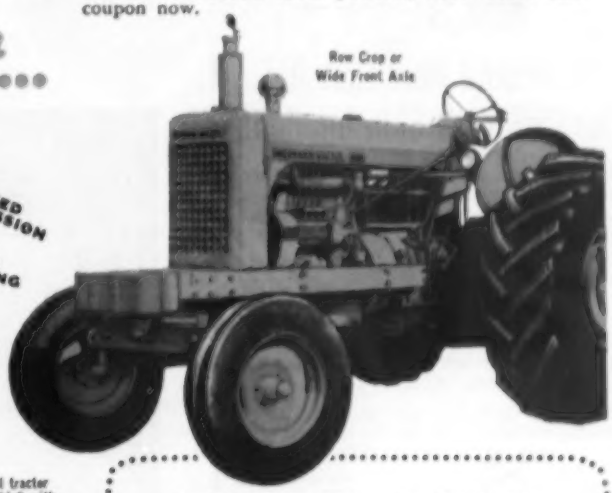
He's wise to what increases farm profits. He knows it pays to replace farm labor with machines. He knows it pays to replace two tractors with one. And, he knows that's possible only with the combined work capacity and job flexibility of a Sheppard Diesel SD-4.

it's the finest tractor built...

AND IT BELONGS ON YOUR FARM, TOO.

There are big tractors. And, there are small tractors. Each is limited in its use. The Sheppard SD-4 is an amazing tractor. As one farmer put it: "It's BIG inside; small outside." By this he meant: the SD-4 has the Big Power to replace a 6 ton crawler. On the other hand, it is so easy to handle and so economical to operate you will prefer it in place of a smaller tractor for cultivating and other light work.

No matter what size or type tractors you now operate, your Sheppard Dealer can convincingly demonstrate that a Sheppard SD-4 belongs on your farm. He can show you how its exclusive combination of Big Power and Job Flexibility works to reduce tractor investment, cut labor cost, save time. When he does, you will be wise to increased farm profits, too! Mail that coupon now.



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For scrapes and burns—helps ease the pain! Soothe on—no sting! Wash off—no stain!

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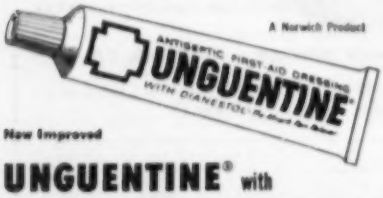

New Improved

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Double-duty fashion accessories

It's smart and cost cutting, too, to own accessories that serve more than one purpose, such as these shown here. And, there are many other ideas you'll think of for your own wardrobe

A reversible belt that can be worn with ever so many outfits. Buckle is metal, belt is black on one side—saddle-leather color on the other. What a wonderful belt for a schoolgirl to have.

No more worries of breaking strands of beads with these that have their own little notches to pop into. One long strand can become a choker, necklace, or bracelet according to your own whims.

Photographs: Hopkins

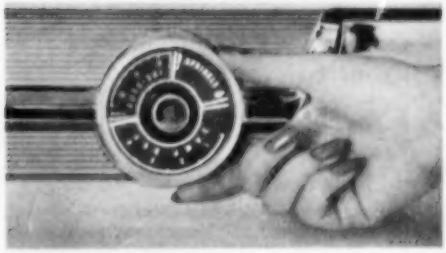
Combination in one piece of a stole, ▶ gloves, head covering, or hood ends problem of having too many things to manage in your hands. Stole part is shaped for body contour, gloves are cut in one piece.

Jeweled collar, gloves with tailored pearl trim, or gloves with fancy jeweled cuffs that button on is a swell idea for any accessory list. Cuffs button together at back and front to form collar. Available in several colors you'll like.

No rainy washday worries for this modern homemaker! Her wonderful new G-E Dryer with automatic clothes conditioning dries clothes just right, every time! Why not see *your* G-E dealer soon? G-E Dryers priced as low as $149.95 in most areas.

New G-E Dryer with Automatic Control adjusts drying time and temperature to suit every load . . . every fabric you wash!

Dries clothes wrinkle-free . . . sunshine-fresh . . . indoors!



This Automatic Control distinguishes the new General Electric Dryer from just another dryer! It adjusts to the correct time and temperature for any clothes load . . . automatically!

No need to guess how long a load should dry . . . or at what temperature! Simply set control according to fabrics.

"N" . . . *for normal fabrics—cottons, linens*

"D" . . . *for delicate fabrics*

"H" . . . *for heavy bedspreads and rugs*

That one motion is all it takes to dry your clothes softer, fluffier than you ever thought possible!

You'll find you'll have less to iron . . . many pieces come out of the dryer so smooth and wrinkle-free you can wear them immediately —or put them away without ironing!

Sprinkle your clothes . . . automatically in the new G-E Dryer! When you're ready to iron, put clothes to be dampened in your General Electric Dryer and turn control to SPRINKLE.

The right combination of moisture, air and tumbling will have them ready for easy ironing in minutes.

See it at your G-E dealer's soon! Available in Petal Pink, Turquoise Green, Canary Yellow, Cadet Blue, Woodtone Brown and White. General Electric Company, Major Appliance Division, Louisville 1, Kentucky

No special wiring necessary! Can be operated on 115-v. appliance or on 230-v. circuit.

Gentle fragrance *from Air Freshener* is released into air stream and fills clothes with sunshine-fresh smell without sunshine-fade.

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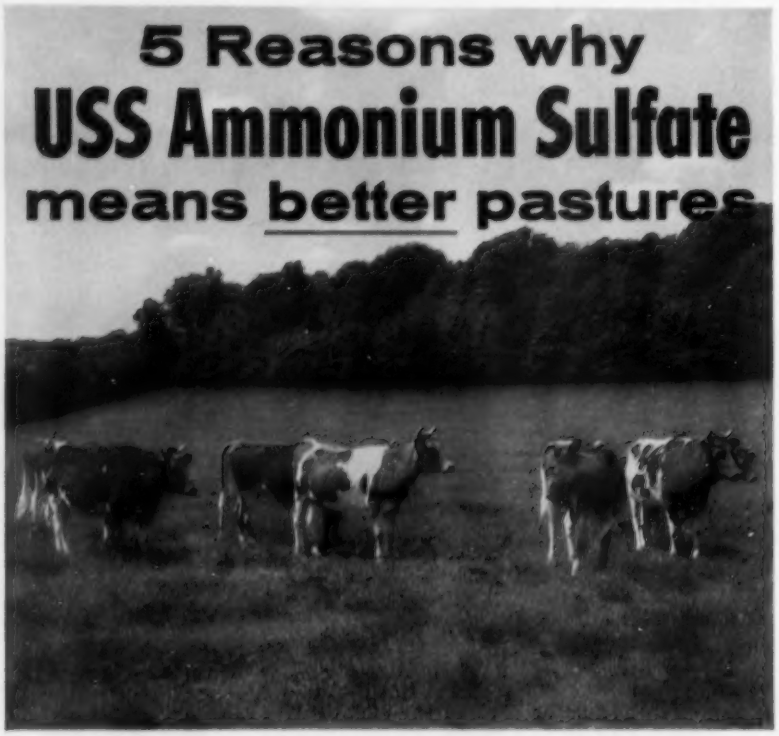
GENERAL ELECTRIC

5 Reasons why USS Ammonium Sulfate means better pastures



HIGHER PROTEIN GRASS!

The nitrogen in ammonium sulfate helps boost the protein content of your grass. Richer grass means higher grade beef and more milk . . . and more profit for you.

DROUGHT RESISTANCE!

Grass that has enough nitrogen to feed on develops *deep* root systems with greater drought tolerance. It means that your pastures make *far* better use of the available water—when they have enough nitrogen.

GRAZE MORE HEAD PER ACRE!

Because USS Ammonium Sulfate stimulates a higher yield of protein-rich grass, you'll be able to graze *more* cattle per acre . . . and save on your feed bills too!

FASTER REGROWTH!

A top dress with USS Ammonium Sulfate after each grazing brings on a fast, UNIFORM regrowth of grass, speeding up your pasture rotation and increasing grazing profits.

EXTEND THE GRAZING PERIOD!

When you top dress with USS Ammonium Sulfate *early*, the nitrogen in ammonium sulfate stimulates an *earlier* growth of grass. It means that your nitrogen-stimulated pastures will be ready for *grazing ten days or two weeks earlier* than usual. Extended grazing means bigger profits for you!

For greater profits from your pastures, be sure to have your soil tested—then apply the lime and fertilizer as recommended. Do it . . . this week!

USS Ammonium Sulfate

UNITED STATES STEEL

Veterinary

Heart disease tied to undulant fever

Research work at George Washington University indicates that a major cause of human heart deaths might be controlled by the elimination of Bang's disease in cattle, goats, and swine. Undulant fever or brucellosis in humans may damage heart valves and cause symptoms like those of rheumatic fever.

Since there is no certain way of differentiating these two diseases, there is a possibility that many damaged hearts now attributed to rheumatic-fever attacks may actually be caused by brucellosis picked up from farm animals.

Ergot poisoning caused shriveled ears, lameness

Not long ago a dairyman reported that several of his cows were suffering from a strange ailment that shriveled their ears and made them lame. One cow lost the brush of her tail.

Investigation showed the symptoms were due to the feeding of grain infested with a black fungus which resulted in ergot poisoning. Similar symptoms may be caused in swine by feeding such grain, and poultry develop dry, blackened combs after eating it for some time. A change to ergot-free grain usually ends the trouble promptly when it is discovered in the early stages.

Slippery litter cause of twisted toes

The other day a poultryman brought in some young chickens that had badly twisted toes. He suspected some kind of a nutritional deficiency was to blame.

A checkup showed that trouble was due to the use of a slippery litter in which the birds tried to crook their toes so they could stand and move around. Although the exact cause is unknown, such trouble is easily corrected by changing the litter.

Stomatitis on increase

There has been a marked increase of stomatitis among Michigan cattle during recent months. Many veterinarians wonder if the extremely warm weather, which at one time was thought to be a possible cause, is entirely responsible. A total of about 250 cases of stomatitis in Michigan have been reported by private pracititioners.

While not a killing disease in most cases, stomatitis weakens the animal's resistance. It is of economic importance to owners of dairy or beef animals because it results in loss in the animal's weight and decreases milk production.

The first symptom seen by owners is

helps

stiffness in animals, followed by difficult walking, loss of milk flow, and loss of appetite. Feet become swollen and hot around pastern region. Eyes may be red and watery. Muzzle is usually swollen, hot, and parched. Lips and inside of mouth are red and swollen also. And, the mouth may become ulcerated. The disease seldom affects an entire herd, veterinarians report.

Notify your veterinarian if symptoms similar to those described are present in your herd.

Twin calves of doubtful value to dairymen

Records kept at South Dakota State College over a 50-year period show that twin calves aren't profitable for dairymen. Seventy cows gave birth to twin calves during this period. Their milk production in the lactation period following twinning averaged about 1,000 pounds of milk and 50 pounds of butterfat less than previous or succeeding periods.

With purebred cattle the extra calf may more than make up for the reduced milk income, but a grade calf probably won't do it.

Settle dust with calcium chloride

Swine are often affected with "dust pneumonia" when they are kept in dusty quarters. Engineers from Rutgers University report that the dust can be settled by adding 2 pounds of calcium chloride to each square yard of surface.

The chemical binds dust particles by attracting moisture, making them too heavy to blow away. They then tend to be packed down, eventually resulting in a smooth, dust-free surface.

Cobalt a moneymaker in deficient areas

Feeding cobalt to dairy cattle is boosting the income for New York dairymen by about $480,000 a year in increased milk production. A study by Cornell University has revealed that large areas within the state have cobalt-deficient soils.

These deficiencies are readily and cheaply corrected by adding cobalt compounds to livestock rations. The feeds should contain from 2 to 4 grams of cobalt salts per ton.

When an animal is deficient in cobalt it loses its appetite, weight, and its blood becomes anemic. It, of course, produces less milk.

Bacteria in an animal's stomach turns the cobalt into Vitamin B_{12}. Therefore, the mineral deficiency was essentially a vitamin deficiency.

DROP 'EM... Fast or Far Away!

Shoot the Surest of Small-Game Repeaters

MARLIN 56

LEVERMATIC .22

Now you can finish off farm pests the first time you see 'em—with the world's fastest-firing, steadiest-holding repeater!

New *short-stroke* lever action lets you reload with a 2-inch finger-flick. Your sights stay right on your target . . . your finger stays right on the trigger . . . you fire with almost the speed of a semi-automatic!

You get off more shots, better aimed—and you get Micro-Groove* pinpoint accuracy that pays off in clean, hard hits!

From buttplate to muzzle, the all-new 56 Levermatic was designed just for small-game hunters. See it . . . handle it . . . at your dealer's. You'll know *this* is the one for *you!*

*Patent applied for

48.75†

†Slightly higher west of the Rockies. Prices subject to change without notice.

⅔ Shorter Stroke. This diagram shows how Marlin's new short-stroke lever action lets you outshoot any other lever action—by a long shot! Blazing speed, plus steady holding and Micro-Groove accuracy, give you hits on even the fastest, trickiest targets!

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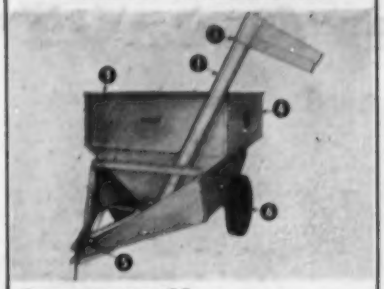
83 BU. ALL-STEEL AUGER UNLOADER



$295.00 F.O.B LESS TIRES

COMPARE WITH ANY OTHER!

(1) 8 ft. front elevator unloads to either side or back into box, locks in positions automatically.
(2) 2½ ft. elevator extensions available for bin or self-feeder filling.
(3) One-foot side extensions give 100 bu. capacity; 83.2 bu. standard.
(4) Heavy-gauge steel box, 10 gauge frame.
(5) Quick-detachable PTO drive with safety sheer pin.
(6) Tandem axles available (extra). 15" drop center wheels.

HELIX CORPORATION, Dept. 33-I, Grows Point, Indiana
Yes! . . . send me more information on your auger unloader.
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Town & State.....

For decorating advice, see page 202—and visit the store located nearest you.

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PILOT BRAND
OYSTER SHELL
is ALL good

Every bit of Pilot Brand Oyster Shell can be eaten by your fowl. There's absolutely no waste. That's why Pilot Brand costs so little. So, never be without a supply of pure, clean Pilot Brand Oyster Shell, the reliable source of calcium carbonate that helps you get more eggs with stronger shells.

In the bag with the big blue Pilot Wheel. At most good feed dealers.

PILOT OYSTER SHELL For Poultry

Oyster Shell Products Corporation
New Rochelle, N. Y. St. Louis 9, Mo.

An easy way to feed cattle

Photographs: Hughes

Power-driven, feed-mixing wagon delivers feed to the end of 110-foot conveyer chute. A 9-inch auger moves the feed to other end

Augered down the chute, the feed spills into downspouts spaced 5 feet apart. Duck cloth and sections of distributor pipe form spouts

Getting feed from the bin to the bunk with the least amount of handling is not a problem in the Nessler and Eisendrath feedlot, Kane County, Illinois.

To solve the problem, they invented this system. Feed from overhead bins is first ground and then blown into a power-driven feed-mixing wagon. After driving over to the feedlot alley, the ground feed is augered into the end of a conveyer chute made from salvage lumber.

This chute or channel is built to allow a half-inch clearance on sides and bottom for the 9-inch auger inside. Augered down the chute, the feed spills into downspouts and into the bunks. The tops of the spouts are made of duck cloth to lend flexibility. The bottoms of the spouts are sections of distributor pipe from his silo-filling rig.

These spouts, spaced 5 feet apart, are fastened to the bunk with chains to keep cattle from moving them. Parallel 2x6 boards are used to keep cattle out of bunks and to make cleaning easier.

The feed fills up the downspouts and the wooden conveyer before the motor cuts off. Then the feed-mixing wagon is driven down the alley to the next conveyer and the job is repeated.

Power is furnished by a 3-hp gear-head motor mounted at the opposite end of the conveyer. Ed Hornback, manager of the feedlot, says the arrangement works better when the motor and auger pull rather than push the feed down the length of the 110-foot conveyer chute.

Before you buy,

check source of treated posts

You can't look at a treated fence post and be sure you are getting a post which will withstand rot. Some are being sold today which are little better than untreated posts.

According to Missouri Forester Lawrence Leney, you need to buy from a reliable source and check the certification in writing by the company on how the posts were treated. Price may make it hard to turn down a cheap load of posts—but they may prove a waste of money.

Leney says posts treated with petroleum alone under pressure to give good penetration will not do the job. The oil solution used must be at least 50-percent creosote. You can get a fair check on this by cutting a post and smelling the inside. If you get a strong creosote smell on the fresh cut inside of the post, the posts are probably well treated. But if only the outside smells heavily of creosote, chances are that the posts were dipped in creosote after pressure-treating with oil to give the black color. This treatment offers little protection against rot.

Also, you'll find some posts for sale which have only been dipped in a creosote-and-oil solution and have very little penetration of the wood. This will show immediately when you cut a post cross-sectionally.

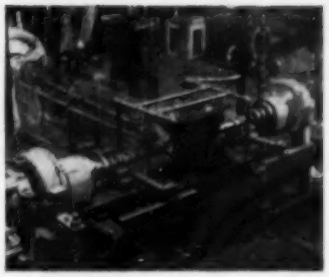
According to Leney, another reason for checking the certification of the company producing the posts is that some of the best modern post treatments don't color the posts at all. Such treatments as pentachlorophenol or copper naphthenate, when used in oil treatments, don't blacken the posts even though they do a good job of treating. Appearance in these cases depends on the type of oil used.

There also are effective preservatives which can be used with water and leave no indentifying color at all.

When checking the certification, creosoted posts should show 50 percent or more Grade 1 creosote and at least 7 pounds of preservative solution for each cubic foot of wood. For posts treated with penta, there should be at least a 5-percent solution. Only with these complete treatments can you be sure you are getting treated posts which will stand up.

Making the most of MECHANIZED FARMING

BETTER MACHINES MEAN BETTER FARMING... TIMKEN BEARINGS MEAN BETTER MACHINES



2. HOW GOOD IMPLEMENTS ARE MADE BETTER

Here's an example of how the Timken Company's vast testing facilities help farm machinery manufacturers develop better bearing applications for tractors and implements. This dynamometer is used for fatigue-testing rear axles and transmissions. Because of this extensive Timken Company testing and research, farm tractors and implements serve you better, last longer.

1. DISTRIBUTES 8 TONS OF FEED IN 3½ MINUTES

A California rancher invented a wagon that can distribute eight tons of feed to his corrals in only three and a half minutes. He used to do this job by hand. Now, this form of mechanization saves both time and manpower. The wagon has an inverted V-shaped bottom that causes feed to flow toward doors on either side. Then by means of a power take-off from the tractor, a series of steel paddles on the end of an auger shaft throw the feed through the doors and into the feed troughs lining the corrals. By spacing these troughs just a wagon's width apart, feed can be distributed to two corrals simultaneously. This is another example of how mechanized farming makes for greater farm profits.

To help you make the most of mechanized farming, implement manufacturers are mounting more and more moving parts on Timken® tapered roller bearings. That means less time out for lubrication, maintenance, and breakdowns.

3. FARMER MAKES SAW RIG OUT OF OLD CAR PARTS

A Wisconsin farmer designed and built this trailer-type saw rig by mounting a power take-off on an old car rear end. It is easily attached to any tractor in less than two minutes and does an efficient job of wood-cutting.

NOTE: $10 FOR IDEAS: We'll pay $10.00 for each mechanized farming idea that we accept and publish. Send photo of implement and description to The Timken Company, Dept. SF-3, Canton 6, Ohio.

4. HOW TO KNOW A TOP VALUE IMPLEMENT WHEN YOU SEE ONE

A recent national survey among 1,000 farmers revealed that 85% are interested in bearings when they buy machines. Of this group, six out of seven prefer Timken bearings. Farmers know that Timken bearings keep implements on the go, help make money for them. So look for the "Timken Bearing Equipped" symbol on the farm implements *you* buy. It's your guide to value. The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO".

Tapered Roller
TIMKEN BEARING EQUIPPED

This symbol on a product means its bearings are the best. Look for it when you buy.

NOT JUST A BALL ○ NOT JUST A ROLLER ⬭ THE TIMKEN TAPERED ROLLER ⬭ BEARING TAKES RADIAL AND THRUST—LOADS OR ANY COMBINATION

IF YOU WANT GOOD FEED TO STICK TO MY RIBS

DON'T EXPERIMENT

You can get from PRATT your choice of 67 different feeds, one for every situation you may face . . . as well as the "101" line of Health Products to guard the health of your livestock and poultry. . . . PRATT has no by-products to sell. . . . We are free to choose ingredients that will give our feeders from coast to coast the very best results. Because PRATT manufactures both Health Products and Feed, *you can be sure* that remedial feeds bearing the name PRATT are completely compatible as well as effective. . . . *Don't experiment this year,* Remember, we test everything that is new, and only the most effective will ever bear the name PRATTS.

THERE IS A PRATT PRODUCT FOR EVERY FEEDER NEED

HOG FEEDS

Supreme 35% Pig and Sow Concentrate
Supreme 40% Hog Supplement — Supreme Pig Pep (Creep Feed)
Supreme Pig and Sow Supplement — Supreme Pig to Hog Meal
Supreme 26% Pig and Sow Meal — Supreme Pig and Hog Wormer

HEALTH PRODUCTS

Swine Builder — Hog Wormer
Hog Oil (for Mange)
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NAME _____

ADDRESS _____

Big Six in homes

From page 66

cars out of the way of wagons, tractors, and trucks. Hide the rear door with a corner of the house or trellis or even fence it off. Make the front door the most convenient, most attractive, and most inviting one for visitors to knock on.

2. A farm business center, convenient to the rear door, yet private and orderly for business-like care of your business of farming. It need not have a special room—although often a special room is best—but it can be in any area off the central hall. Perhaps a combination office, sewing room, and alternate bedroom is your best bet.

3. A central hall to connect the rear door with work areas and basement stairs. Keeping traffic out of your work areas is important during meal preparation and other kitchen activities. If a hall, as such, cannot be provided, the next best is to change doors so traffic goes across the corner or end of the room—never diagonally across. A central hall also keeps traffic out of living and dining rooms.

4. A wash-up area near rear door. This is an important area for keeping muddy boots, work clothes, and hand washing out of the kitchen. You might handle this problem with a closet near the rear door for work clothes, a spot to place muddy boots—don't forget a boot washer here, too—and anything from a lavatory in the central hall to a half-bath or shower just off the hall. With careful planning you can arrange to have a full bathroom near the rear door for the men as well as the rest of the household.

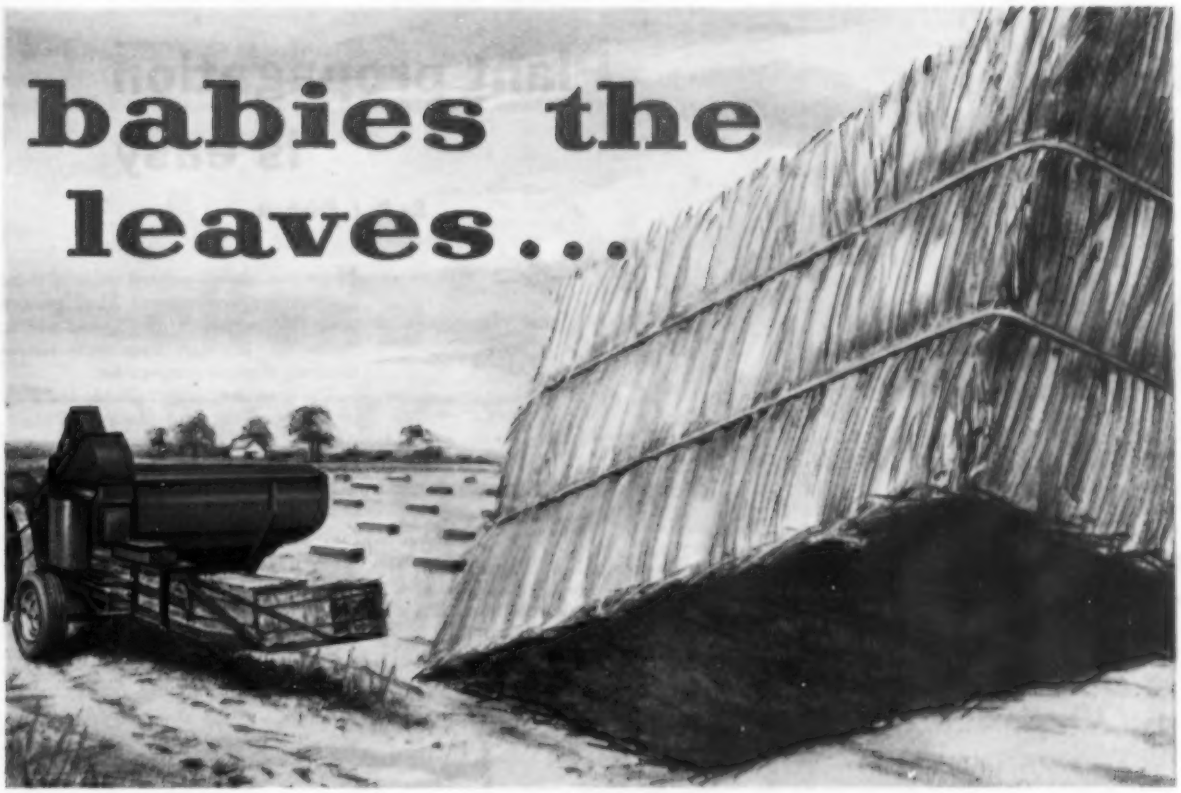
5. Workroom area near the kitchen and rear door. This is the space for food preservation, washing, drying, and ironing clothes, and other jobs you would rather not do in the kitchen. In large houses you can sometimes provide space for the workroom on the first floor in a seldom used room. In a smaller house, you can add it to the back as a separate addition or include it in a porch. The drawings on pages 66 and 67 are some examples.

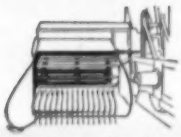
> **The house that is built after every man's advice seldom has a roof.** —*Swedish proverb.*

6. View of farm buildings and driveway from kitchen or workroom. It's important to be able to see who drives in the yard or what's happening in and around the service buildings. Proper location of the kitchen and workroom on this side of the house will save steps and an occasional embarrassment when unexpected callers arrive.

This is *Successful Farming's* Big Six in farm homes. As you go about the job of planning your house remodeling or searching for new farm house plans, keep it in mind.

Apply it to your home and the house you live in will be more than a good house on a farm. It will be a farmhouse that fits your farm!





Vertical, undershot elevator levels out bunches. Solid table bottom

Proven knotter ties under compression, extremely accurate

Enclosed drives run in bath of oil. Heavy ball bearings

Needles pass through plunger — not the hay, less wear

but bales 'em fast!

MASSEY-HARRIS SLICER BALER

LEAF-GUARD design — the Massey-Harris way of crop protection — starts at the small diameter pick-up that travels the crop a shorter distance. It continues up the solid table with its leaf-saving undershot elevator . . . through the enclosed cross conveyor with its gentle tumbling action . . . and on into the bale chamber where every charge retains a high leaf count.

With leaf-guard design the knotter ties under compression to capture more of the protein-rich leaves . . . assures highly palatable feed with more grow-power for livestock.

And the capacity to maintain leaf-guard efficiency is constant, dependable. A big, heavy flywheel keeps up uniform baling speed . . . perfect timing and accuracy that turns out firm 14 x 18 x 37 inch bales . . . tied tighter to take a lot of handling, to stay tied under storage.

NO. 1 ENGINE DRIVEN BALER
Powered by a 25 hp air-cooled engine, the No. 1 Baler turns out up to 7 bales a minute depending on moisture. Leaf-guard design saves more of the protein-rich leaves in every bale.

NO. 1 PTO BALER
Custom baler capacity at low cost. Heavy, belt-driven flywheel maintains correct power delivery for uniform bales.

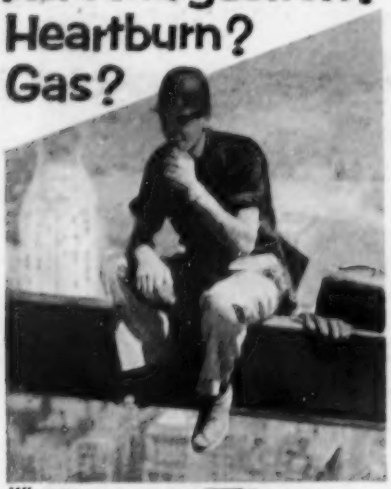
Ask for a demonstration

See these big-capacity leaf-guard balers in action on your farm. See how they put new efficiency into haymaking. For folder write Massey-Harris, Dept. C-110, Racine, Wis.

Keep your eye on **Massey-Harris**

FOR BETTER FARMING, JOIN YOUR SOIL CONSERVATION DISTRICT

Acid Indigestion? Heartburn? Gas?



Wherever you are, whatever you're doing—you can **Fix it On The Spot!** with

FOR THE TUMMY

Get TUMS today! 3 roll package—25¢

"Make Yours a Well-Dressed Home," a 35 mm *Successful Farming* filmstrip in color. Film, records, printed commentary—$9.50

FIXIT TIPS

WITH "SCOTCH" 33 PLASTIC TAPE

MEND AUTO HOSES with tight wrap of stretchy, waterproof "SCOTCH" 33 Plastic Tape. Stretchy plastic seals tight, resists corrosion.

WRAP TOOL HANDLES. Tough, long-wearing plastic tape covers rough handles, makes smooth non-slip grip. Get "SCOTCH" Brand 33 Plastic Tape, 39¢ or 79¢ at stores everywhere.

MINNESOTA MINING & MFG. CO., ST. PAUL 6, MINN.

Plant propagation is easy

By B. J. Brinhart

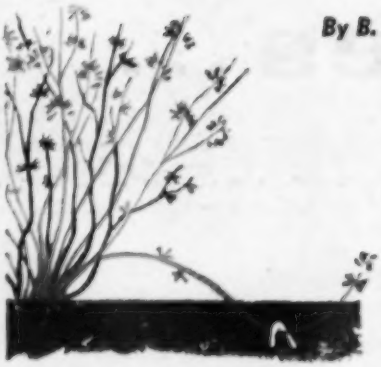
Have you always wanted more of those favorite shrubs or trees? Most persons have favorite plants they would like to reproduce. It's easy with these simple methods of plant propagation.

The work is relatively simple and foolproof. It does not injure the mother plant. And best of all, the new tree or shrub will be an exact duplicate of its mother plant.

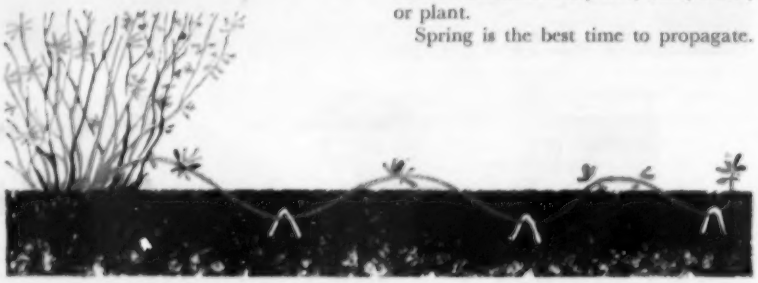
For years greenhouse operators and nurserymen have used these methods of propagation. Recently, the practice has been emphasized by introduction of the plastic wrap method.

The following drawings show the several methods of plant propagation. All plants cannot be multiplied in the same manner. By employing one or more of these methods, new shoots can be reproduced from almost any tree, bush, shrub, or plant.

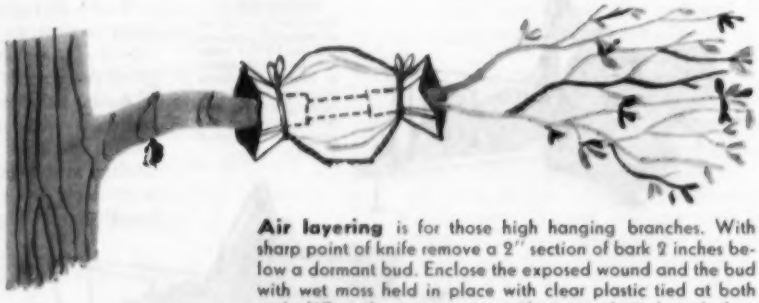
Spring is the best time to propagate.



Simple layering is best for the low-branched tree or shrub. Cut half-way through top side of branch and insert pebble. Position wound within 2 inches of a dormant bud. Place wood or wire fork over wounded branch and cover with soil. When roots are 1½" long, cut from stem



Compound or serpentine layering is fine for climbing roses, ivy, and other climbers. Use last year's vines for best results. Cut each loop halfway through at point where it touches the ground. Remove leaves where cane will be below soil level. Use above technique and make incisions about 18" apart. With this method you can root as many as 5 to 7 plants from one vine. After roots form, cut the sections apart and plant



Air layering is for those high hanging branches. With sharp point of knife remove a 2" section of bark 2 inches below a dormant bud. Enclose the exposed wound and the bud with wet moss held in place with clear plastic tied at both ends. When the roots are started, remove branch and plant

Hillock or mound layering is recommended for increasing your blueberry, quince, and gooseberry bushes. The method is successful with other berry bushes and various ornamental shrubs. Cut each bush back to within a few inches of ground level. Then heap at least 5 inches soil over stump.

When new shoots are 2 feet high, remove dirt from mound and carefully cut off each shoot. Prune back each plant, transplant.

A new alfalfa variety

Tests in many states indicate that a new variety of alfalfa called Du Puits (pronounced Doo Pwee) could become one of the more important short-rotation alfalfa varieties.

Higher Yields are the big difference between Du Puits and other varieties. Du Puits has been the top yielder or among the highest yielding alfalfa varieties in many tests. Yield differences have often been substantial. In one series of tests, for example, the extra hay produced by Du Puits was worth $13.20 more per acre than the next highest-yielding variety and $20.00 more per acre than the third highest-yielding variety. Hay was valued at $30.00 per ton.

DU PUITS FEATURES

Longer Growing Period: Du Puits alfalfa starts growth faster in the spring and blooms about a week earlier than other northern-adapted varieties. Grows later into the fall, too.

Exceptional Seedling Vigor: In many tests it has demonstrated superior ability to establish good stands even when competition is severe. Because of its seedling vigor, stand failures due to competition from small grain companion crop or from weeds may be fewer.

Recovers Quicker: Recovers faster after cutting than other varieties of similar adaptation. This feature, together with Du Puits' longer growing season, often means one extra cutting from Du Puits.

More Resistance to Common Leafspot: In several State Agricultural Experiment Station trials Du Puits has been specially singled out for resistance to common leafspot. Because of its resistance Du Puits maintains deep green color, holds leaves better and produces better quality hay than susceptible varieties.

Winter-Hardiness: Du Puits has shown satisfactory winter-hardiness in the central Cornbelt states and as far North as New York state in the East. Trials indicate that it approaches Ranger in resistance to winter injury.

Short-Rotation Variety: Where adapted, Du Puits is ideally suited for one to three year stands where exceptionally high yields of quality forage are desired. Like Narragansett and Atlantic, it is not wilt-resistant. In many areas it will provide one extra cutting per season.

Certified Du Puits alfalfa seed is available from your local seed store. This year—get more from every acre with Certified Du Puits Alfalfa Seed.

The information presented here is based on a consensus of trial results. It may or may not apply to your state. We therefore urge you to check with your County Agent or State Agricultural Experiment Station for results in your area.

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Save time . . . work! Ariens Jr. prepares garden without spading; cultivates all season without hoeing! Curved, swept back "paring knife" tines. Tills 12" wide, up to 6" deep. 2 h.p. engine. Tip-toe tiller clutch. Unequalled for all-steel construction, looks, performance, price!

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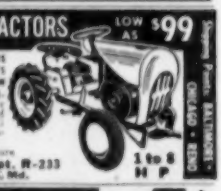

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unbreakable where other forks break
The Union Fork & Hoe Co.
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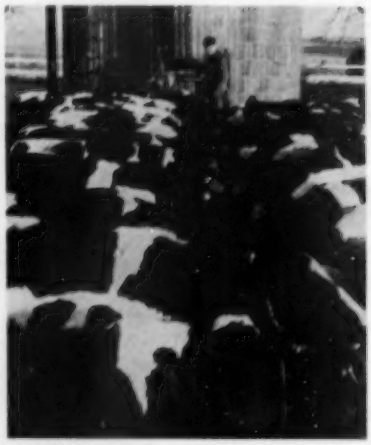


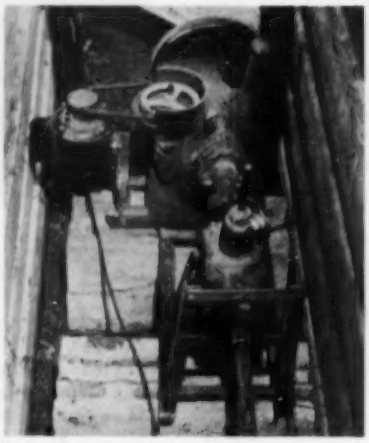
Cattle line up on both sides of 60′ automatic silage feeder. Feeder is placed on 30′x60′ concrete slab, keeping the cattle out of mud

A natural dislike for carrying heavy silage forced Elmer Garber, Seward County, Nebraska, to devise a laborsaving method of automatically feeding silage to his herd of Grade-A-producing Holsteins.

The web chain moves the silage from the silo ladder well to the end of the bunk. Excess silage is dumped into a smaller bunk at the end from which calves in another lot can feed. The chain belt returns to the silo end under the bunk, sliding along wooden strips.

It takes the chain belt just 12 minutes to move the length of the bunk. This is just about the time it takes Garber to toss 60 forkfuls of silage onto the feeder.

Future plans call for another upright silo at the other end of the feeder, enabling him to feed from both silos.



Feeder is powered by a 1/6-hp motor and is driven by an old cream separator hooked in reverse, and an automobile transmission

A pair of moving chains along the sides of the bunk, with slats across at intervals, carry silage from silo ladder well to end of bunk

New market for hardwoods

Farmers owning woodlands containing stunted scrub oak or other second-growth hardwood trees, might do well to watch the paper industry as a potential market.

Paper mills are making increasing use of second-growth hardwoods, blending their fiber with spruce and pine pulp by means of a process developed by the United States Forest Products Laboratory at Madison, Wisconsin, and improved by the commercial mills.

This is gradually opening up a market for some heretofore almost worthless wood. Central Wisconsin, for example, has a large area with heavy growths of scrub oak which never reach timber size because of the sandy loam soil and other factors. Much of this scrub oak is so gnarled and stubby that farmers seldom bother to cut it, even for fuel.

Now, however, paper mills are making a limited number of contracts with landowners, and foresters hope the day is near when this new market will take millions of cords of the oak to supplement the dwindling supply of spruce and pine.

The paper mills themselves have a large stake in the increased use of hardwoods. Many mills are already forced to import spruce and pine pulpwood from other countries. The use of hardwood on an increasing scale not only gives them a nearby source of supply, it also clears woodlands which can then be restocked with new plantings of desirable trees for use in the years ahead.

WHATEVER THEY DREAM UP NEXT—

FOR MORE WORK—LESS DOWNTIME—

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How competitive pricing in transportation would help you

In most American businesses, the benefits of greater efficiency can be passed on to the public. In the transportation business, however, this is not always the case.

Consider what has happened on the railroads:

In the last 30 years the speed of the average freight train has gone up more than 50 per cent; the load has nearly doubled and the hourly output of transportation has increased nearly three times.

To make possible these and other gains in efficiency, the railroads have spent, since the end of World War II, nearly $11,000,000,000 – every dollar of which was financed by the railroads themselves.

But – as is shown in the report of a special Cabinet Committee appointed by the President – government regulation frequently denies to the public the benefit of the lower costs of the most economical form of transportation, so as to protect the traffic and revenues of carriers with higher costs. The result, as the Cabinet Committee says, is that shippers and the consuming public must pay more for freight transportation than would otherwise be necessary.

What can be done to correct this unhealthy situation?

The special Cabinet Committee recommended that railroads and other forms of regulated transportation be given greater freedom to base their prices on their own natural advantages. At the same time, regulation would continue to prevent charges which are unreasonably high or unreasonably low, or are unduly discriminatory.

This would make it possible to pass on the benefits of the most efficient operations to shippers, producers and retailers, and to the consuming public which in the end pays all transportation costs.

Bills based on Cabinet Committee recommendations have been introduced in Congress. For full information about this vital subject, write for the booklet, "WHY NOT LET COMPETITION WORK?"

Association of American Railroads

Transportation Building, Washington, D. C.

Late winter

Put new life into foggy or tarnished things around the house. Then, enjoy their better service, handsome newness

Copper-bottom pans, copper utensils and servers take on a "like-new" look with magic-working liquid copper cleaners on the market. These cleaners, available in grocery and housewares stores, are easy to use. Just moisten a paper towel with the cleaner and rub it over the dry copper. Rinse, dry, and polish immediately.

Lemon juice and salt cleans copper, too, but costs almost as much—takes considerably longer to accomplish the same pleasing results.

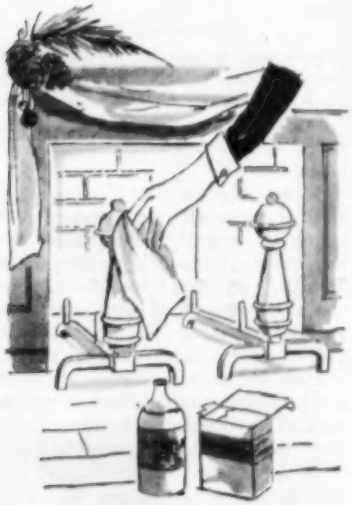
Drawings: Hiser

White porcelain sinks, tubs will come snowy white with "how-to" strategy. Line the complete area to clean with paper towels, drop household chlorine bleach on them—enough to completely moisten the paper towels. Let stand for awhile—until all stains are gone. Remove towels, carefully dispose of them to avoid clothing accidents, and thoroughly rinse bleached area.

Buy a special liquid to remove rust stains and use according to directions.

spruce-ups

The coffeepot does extra duty during the winter months. Shine it up to improve both the flavor of the coffee and make it look its best. Buy a tiny, long-handled brush to get percolator stem really clean. Use a pinch of soda in hot water to "sweeten up" metal pots; make glass pots sparkle with 2 tablespoons vinegar added to boiling water. (Use this vinegar treatment for any glass cookware that has hard-water scum or fog.)



Make brass andirons and fireplace tools glow with a soft, dull finish. Rub them with a mixture of linseed oil and rottenstone the consistency of heavy cream. Apply the mixture with a soft cloth and rub briskly till all tarnish disappears. Polish with a soft cloth that has been dipped in linseed oil. Remove excess oil with a soft, clean cloth.

Valuable brass, that has corroded and won't clean up at home, can be restored at the nearest electroplating company.

"3 RILCO buildings now... and I'd build RILCO again"

Says LAWRENCE BRUGGEMAN
St. Ansgar, Iowa

*Price based on first quality materials, and will vary according to locality.

"It's Rilco for me . . . every time I build," Mr. Bruggeman declares. "My machine shed, barn and chicken house are all Rilco construction . . . and if I build again, you can bet it'll be Rilco!" Mr. Bruggeman feels the sturdy construction of his Type 55 Machine Shed has given him a building that will "keep its shape . . . really stand up" in high winds and under heavy snow loads. The erected cost was actually less than most so-called economy type structures.

Before deciding on your next farm building, get all the facts on Rilco . . . then compare. You'll find the erected cost of a Rilco building is amazingly low. Rilco glued laminated rafters go up in hours instead of days. You save on labor . . . you get a stronger, better-looking, longer-lasting structure.

Rilco rafters are shaped and drilled at the factory . . . delivered ready for erection with all connection hardware furnished. They're made of selected, kiln-dried, West Coast Douglas Fir, permanently bonded together with waterproof glue.

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Shopping for a barn? Take a look at Mr. Bruggeman's Type 32 Barn. He says it gives him plenty of clear, unobstructed working space . . . with no posts to get in the way. Rilco construction will earn your stamp of approval, too, when you see it . . . price it . . . compare it with any type of construction. Get all the facts on Rilco from your local lumber dealer or mail coupon below. *Ask the Man Who's Built One!*

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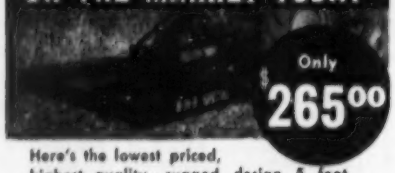

Here's the lowest priced, highest quality, rugged design 5 foot rotary cutter on the market today—the BMB Special Cutter. Easy to assemble, simple to operate, ideal for all tough jobs. It features full length skid shoes, swinging-type blades that contract when obstruction is hit, and flywheel drive to relieve shock. See dealer or write for complete information.

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FREE CHOICE THE YEAR 'ROUND

ANNUAL COST PER HEN Approximately 5¢ (3 to 3½ Lbs. SHELL) — COST

PROFIT Value of approximately **30 EXTRA EGGS** per hen per year

PAYS FOR ITSELF A DOZEN TIMES OVER

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F.F.A. Farm— An educational advantage

With the map of their leased 320-acre livestock and grain farm sketched on the blackboard, Vocational Agriculture Instructor Bill Scoggin discusses farming plans for this year. Scoggin and his 64 Future Farmers use farm as a laboratory for planning and carrying out practical management problems

By Mike Bay

Vo-ag classroom instruction in the Clopton High School, near Clarksville, Missouri, means much more than just "book learning" to Instructor Bill Scoggin's 64 boys. It has to do with the way they will manage and operate their leased 320-acre farm.

With one year's experience behind them, the youths and their instructor have shown that the unique experiment in agricultural education is practical. It is the only high-school vocational-agricultural department in Missouri, and perhaps the nation, that has a well-equipped, diversified farm on which to supply classroom instruction.

The school district rents the farm on a 50-50 basis from Washington University, St. Louis, Missouri, with the profits being divided on a 50-percent basis. To launch the program, Washington University advanced $18,000. Of this, $14,000 was cash needed for the first year's operating expense, $1,000 for building improvement, and $3,000 was represented by feed inventory, 12 beef cows, and limited machinery.

Half of this sum represents a loan to the R-3 School District to be repaid by profit from the farm. Once this is repaid, the district and the vocational-agricultural department will own one-half of the equipment and livestock and be full partners in the operation. The investment cost of livestock, machinery, custom work, seed, fertilizer, and salary of one full-time operator is shared equally between Washington University and the school district.

All the major decisions of operating the farm originate with the members of the vocational-agricultural department, with the boys supplementing the labor of the regularly employed farm operator. And one of the biggest decisions confronting the boys last spring was how to apply the $14,000 cash to the farming operation.

Their first move during the late winter and early spring months was to take soil samples to determine fertilizer needs. They then studied the cropping history of the fields from records supplied by a land-management company who previously supervised the farm's operation. With this information the cropping system was planned.

With the planning completed, these future farmers pitched in and helped with the planting, tending, and harvesting of the crops, the care of the livestock, and the maintenance of fences, buildings, and machinery.

This past year less than $200 was spent for outside labor to help manage the productive 320-acre farm. To help solve the

[*Turn to page 190*

Wherever you farm...

You'll find AC Spark Plugs

Where gasoline is sold . . .

GM cars are serviced . . .

at independent service garages and implement dealers

There are AC Spark Plugs specially designed for your car, truck, tractor or stationary engine!

One hundred and twenty-five thousand outlets throughout the country sell AC Hot Tip Spark Plugs. There's one near you.

As a matter of fact, thousands of American farmers are discovering there's an AC dealer just down the road. Service stations, GM car dealers, most independent service garages and farm implement dealers carry AC Spark Plugs. Ask any one of them for "Hot Tips" for your car, truck, tractor or stationary engine.

You'll be glad you did because AC "Hot Tips" burn away carbon and oil deposits as fast as they form. They keep costs down . . . keep plugs clean!

AC SPARK PLUGS

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AC SPARK PLUG — THE ELECTRONICS DIVISION OF GENERAL MOTORS

easier with new PARAGON Power Sprayer

One man with this compact 12-gal. Paragon can *effectively* spray insecticides, disinfectants, weed killers, whitewash, water-based cement paints, silicone-type waterproofing compounds. Latest type spray gun produces mist for wide coverage, or stream 25 feet high. Pump delivers up to 1½ gals. a minute. Low priced. See your dealer or write for catalog.

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MASTER MECHANICS TOOLS
direct from the factory

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Snap-on tools are not sold in stores . . . buy direct from factory or from the *Snap-on* man who calls on local garages. Write name and address in margin and mail this advertisement for illustrated FREE catalog.

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Dr. Naylor's DEHORNING PASTE

Pep up farm group meetings. Get "How to Save More Pigs" filmstrip with 10-page printed commentary. Send $2.25 to *Successful Farming*, Des Moines 3, Iowa.

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Get the Most for your Money with famous MEYER portables.

3 sizes—10", 18" and 20". Maximum capacity. Galvanized steel sections . . . heavy-duty double steel chain. Roller bearings throughout. Conveyor (hopper or bale chute optional).

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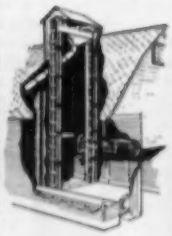

Costs less to own . . . maintain . . . operate! Handles 50 bu. corn or small grain in 3 min. Smooth running, bind-free design—no short curves. Anti-friction bearings . . . malleable or roller chain. Choose from 7 styles.

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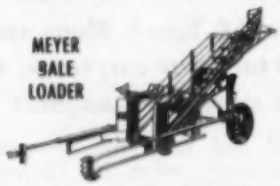

Low cost labor saver! Loads 75 bales in 15 minutes—worth 2 men! Picks up bales as dropped . . . ground driven, light draft, easily hitched. Two bale deck heights.

THIS COUPON WILL SAVE YOU MONEY!

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MAKERS OF FAMOUS MEYER ELEVATORS

F.F.A. Farm

From page 188

problem of providing sufficient equipment for so many willing hands, a major implement company contributed two tractors, two plows, a cultivator, and a cornpicker. Six hybrid-seed-corn companies furnished the seed for 90 acres of corn.

Bill Scoggin closed the books last winter on their first year's operation. His department had netted nearly $4,000—$5,000 short of the $9,000 needed to establish a full partnership.

Their record book reveals an impressive inventory: 18 Hereford cows and calves, 42 sheep, 27 sows, 200 feeder pigs, 4,500 bushels of corn, 1,500 bushels of oats, 4,000 bales of hay, and machinery worth $3,500.

But the officials of Reorganized School District R-3, which approved the vocational agriculture department's farm-management venture, do not look on the farm as a business—it's an educational project.

The school board believed that the farm would be a proving laboratory for the many improved farming practices taught in the classrooms. And it has done just that.

The farm youths are learning farm management by meeting the day-by-day problems on their farm. They are controlling weeds through use of sprays, mowing, and wise selection of rotations. If a piece of machinery breaks in the field, the work stoppage is not long delayed. The item is taken promptly to the vocational-agriculture workshop less than a mile away and repaired.

Last year, Scoggin recalls, several of his students thought earmarking and feeding of high-priced protein to bred sows was foolish. But these and other improved practices resulted in the selling of more than $5,000 worth of hogs in 1955. And another 200 fall pigs are being fed for the spring market. Results such as these are definitely changing the thinking in his classroom, says Instructor Scoggin. Perhaps a similar program can be developed within the vocational-agriculture department in your high school.

"I don't want to cross the street."

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HIGH-BAR PERFORMANCE AT LOW-BAR TIRE PRICES!

Here is a tough, long-wearing tire that puts all of your tractor's horsepower to work . . . performance at a price you cannot match anywhere! Look at these features.

- ★ **100% lug depth . . . for full pull in all soils**
- ★ **Pyramid-supported lugs . . . prevent unnecessary bar layback**
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NEW U.S. ROYAL Hi-BAR

Only $49.05 plus tax 9-24 4 ply

plus generous allowance for your trade-in. Proportionately low prices on other sizes.

LOOK — THOUSANDS OF THREADS OF FINE, FLEXIBLE STEEL are cushioned between the tread and Super Royalon Cord body. They form a Safety Shield invulnerable to cuts, ruptures and blowouts!

An Entirely New Kind of Truck Tire —

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WITH EXCLUSIVE

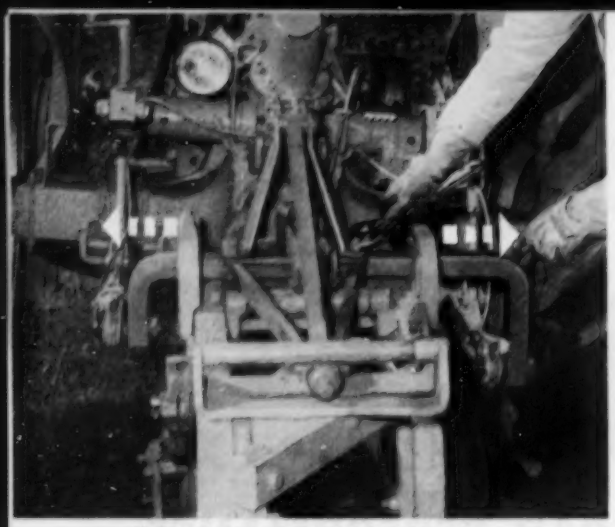
SAFETY STEEL SHIELD

invulnerable to ruptures and cuts in the vital tread area!

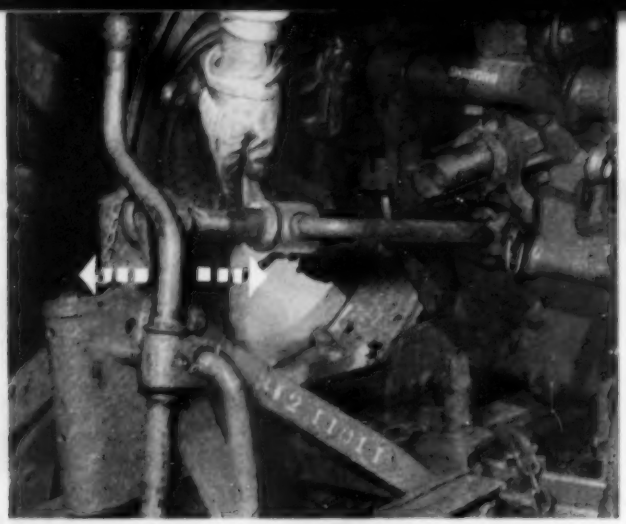
U.S. ROYAL TIRES

Now at your U. S. Royal Dealer's **for every farm car, truck, tractor, implement**

United States Rubber



1. Width of cut may be adjusted by sliding plow frame on draft bar or pointing plow toward or away from furrow wall with set screws or eccentrics. Space rear wheels to prevent overcut on front share. Make them equal distance from drawbar center. Check manual.



2. Set the depth of cut, using turnbuckle depth adjustment in the top link, if the hydraulic control lever does give the desired results. Shorten the adjustable top link to make the plow run deeper (see arrow in photograph above). Or lengthen the link if the plow tends to run too deep. Some older tractors have special index holes for adjusting.

Photographs: Bens

How to adjust a mounted plow

By Dale O. Hull
Iowa State College

3. Keep your plow frame level with ground. Turn hand crank, reachable from tractor seat, to shorten adjustable link when right rear tractor wheel is running in furrow. Lengthen it to same length as left link if opening a land. A level plow gives you ridgeless plowed ground.

5. Set the gauge wheel for maximum depth you expect to plow. Gauge wheels are sometimes furnished as an accessory only. Some have hand crank for adjusting. Keep 45 pounds pressure in tire to resist flattening.

More on page 194

4. Adjust furrow wheel so sliding friction of landside is a minimum. Using a board as shown below, move wheel toward the land to provide ½-¾″ landside clearance. Also, lower wheel to provide ¼-½″ space under heel. There'll be enough space for finger tips under heel.

Protect your herd now against Hog Cholera

Ask your veterinarian to use

FORT DODGE **M·L·V***

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- **Safe, effective**
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M·L·V is safe—cannot cause cholera, cannot seed premises. M·L·V is effective—a fact proved by its successful use on millions of swine under all possible field conditions. The simultaneous use of M·L·V with serum gives your hogs immediate protection, and solid immunity lasting 3 years and more.

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STOP UNNECESSARY DEATH LOSS AMONG YOUNG PIGS! For 3c Per Pig

Nutritional anemia is one of the principal causes of death loss among young swine.

At birth, pigs have a reserve supply of iron, etc., for only a few days. A spade full of sod in the pen will not correct or prevent anemia.

This can be corrected easily with Dr. Olson's new pill dispensing gun. Each gun holds 15 pills, made especially to treat anemic pigs. One pill every ten days contains enough iron, copper and cobalt to do this job.

Act today! Send cash with order or C. O. D. one (1) Doc Olson's Dispensing Gun and (100) pills—Special Offer $5.00. Extra pills for gun 1½c each. Sold on Money Back Guarantee!

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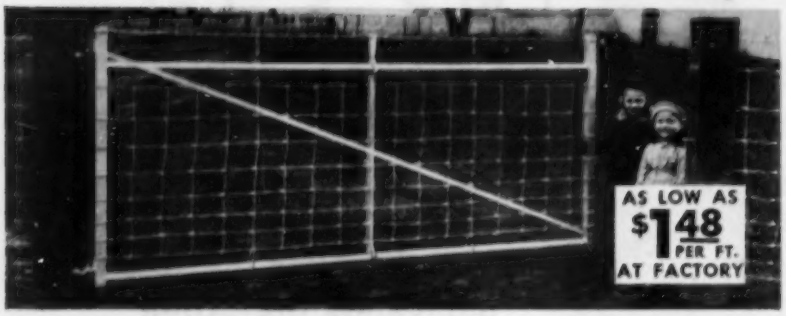
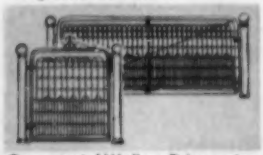
"How to Save More Pigs" Film Strip Now Available to Your Farm Group This film strip with 10-page commentary has been prepared by the editors of Successful Farming to show farm groups successful pig-raising techniques. It is available to groups or individuals at $2.25. For further information write Successful Farming.

Announcing the all new "CLAYMORE" ECONOMY GATE



Hawkeye Gate: lifts up or down. Outer end raises thru hinges. Never drags. Premier: Same design. Galvanized finish.

Heavy Duty stock gate. Strongest made. No wires. Pipe and solid rod. End adjusts up or down. Raises for ground clearance.



Ornamental Walk or Drive gates: Galvanized finish—all sizes.

RUGGED, LONG LASTING, ALL-STEEL. New "Claymore" Farm Gate is the low-cost answer to fencing yard and field lanes. Never before has so much life and strength been built into a gate in this economy price range.

LOW-COST, ALL-STEEL FARM GATE EASY TO MAINTAIN, LASTS FOR YEARS!

A really rigid farm gate—strong enough to last for years. Bright aluminum finish needs little maintenance, looks new in all weather. Yet, for all its rugged good-looks and durability, the CLAYMORE economy gate is priced lower than any other gate of comparable weight and strength.

SIZES from 10 to 16 feet—High carbon 1⅝" steel pipe construction—High Carbon Steel hinges—Aluminum finish. No bolts or rivets. *All welded construction* assures lasting strength. No sharp edges to tear clothes and cut animals.

OTHER CLAY GATES for every purpose. Clay's full line of farm gates includes stock-gates, "Tilting" gates, Heavy-duty "Six Foot" gates and special gates to suit every farm need. Write for catalog and new helpful information on farm gates. Sent free! Mail coupon.

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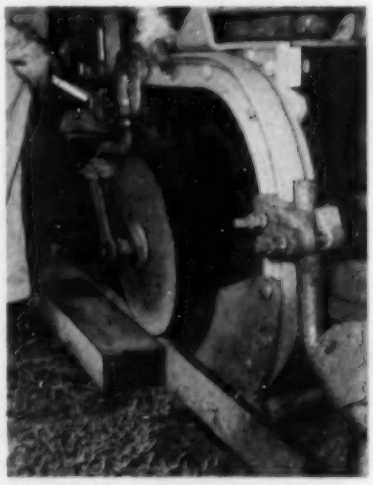
NAME _____
ADDRESS _____
SIZE HERD _____

Adjust a mounted plow

From page 192



6. Set coulter so it lies flat against a 1x4 on edge against landside, as shown. Coulter will be ¾" outside plow shin. The 4"-block sets depth properly for use in easily plowed soils. For hard-to-plow soils, set coulter just deep enough to cut trash, or coulters will support plow.

7. To check for bent plow beams, replace shares with new ones, measure from 1" back of plow point to beam. Measurements for all beams should be within ¼" of each other.

8. If moldboards aren't pitched correctly and are not parallel to each other, furrow slices won't be even. Check pitch by measuring between faces. A variation over 1" is too much misalignment.

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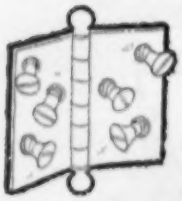

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Tips for dairymen

Antibiotics best for young calves

Antibiotics will boost the growth rate of calves from 10 to 36 percent during the first 16 weeks of age. But after that there seems to be no benefit—unless the animals are to be marketed soon.

When aureomycin or terramycin is used, most of the growth-rate increase comes before calves are 8 weeks old.

Antibiotics are valuable because they cut down on the incidence of calf scours. Antibiotics also increase feed efficiency.

Phenothiazine safely fed to dairy cows, too

Phenothiazine—which has been successful in parasite control in other livestock—looks safe for preventive treatment in dairy cattle.

Researchers at the University of Wisconsin fed 100-gram doses of the drug to cows at various stages of lactation. Of the 100-gram dose fed, the researchers found an average of 62 grams of phenothiazine compounds in the manure and an average of 21 grams in the urine.

The compounds in milk were eliminated through the first few milkings after the drug was fed. Peak elimination of the drug occurred about 26 hours after the drug was given. Within 70 hours after feeding, no trace of phenothiazine was found in the milk.

In this experiment, cows that got the normal preventive treatment of 2-gram dosage showed no evidence of the drug in their milk after treatment.

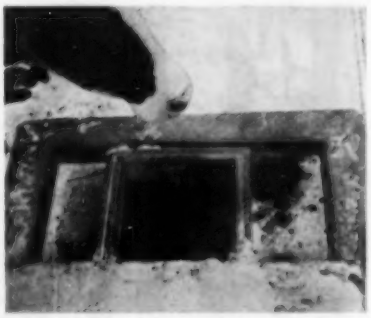
Concrete blocks make good silage-feeding bunk

Concrete-block silage bunks proved the practical feeding arrangement for Calvin Lindwedel, Jefferson County, Missouri. Lindwedel uses this outdoor bunk on a concrete paved platform to handle silage from his trench silo which is located just behind the cows on the left. Lindwedel has experimented with the trench unit and has made silage a permanent practice on his dairy farm. Silage is fed by tractor and manure loader.

Photographs: Hufnagle

Wooden box makes good antifreeze device

A bottomless box of 2x12s placed in the tank with an electric water warmer floating in the back of it helps keep warm water available even on zero days. The ice around the box acts as insulation to help keep the water warm on the inside. The device is in use on the University of Nebraska dairy farm.



Here's another place dairymen can save costs

Grade A milk producers can save on their feed bills by feeding young calves dry skim milk or milk replacers, states Don Hillman, extension dairyman at Michigan State University.

Hillman conducted a test to compare feeding costs when bringing 70-pound calves to 3 months of age. He used skim milk, milk replacer, and whole milk.

It cost $13.70 to feed calves whole milk for 2 weeks, and then skim milk for the rest of the milk-feeding period, including grain.

Total cost to feed a milk replacer from the fifth day through 3 months was $15.03, with feeding rates at manufacturer's recommendations.

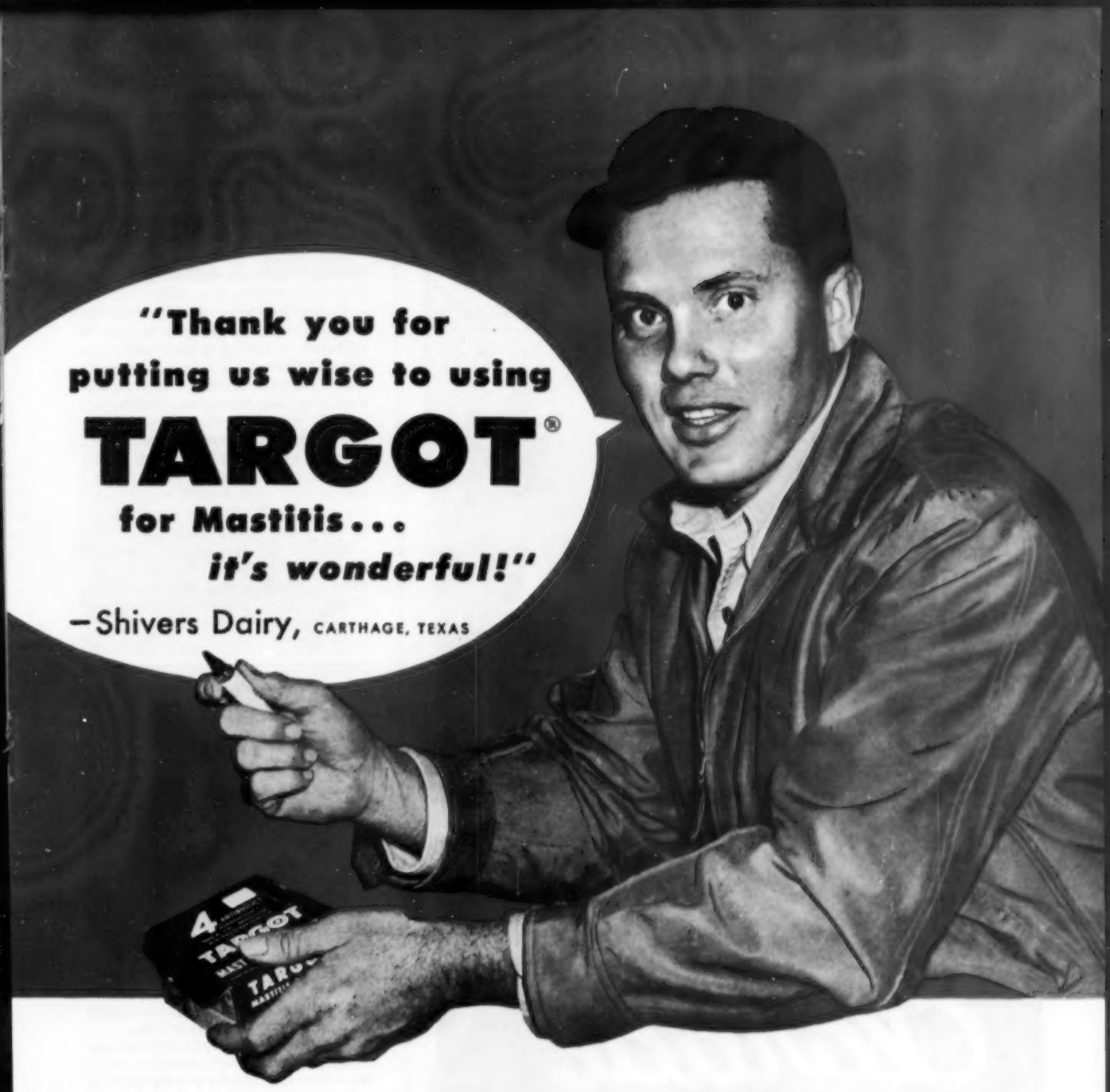
Hillman estimates that the cost for feeding whole milk for 6 weeks and then a commercial calf meal to 3 months of age runs to $19.43.

Machine milking not always cause of mastitis

An increased incidence of mastitis has long been associated with poor milking machine practices, especially high vacuum and excessive milking duration. But this isn't altogether true, say scientists at the Storrs Agricultural Experiment Station in Connecticut.

In tests at the Storrs Station, three levels of vacuum—10, 13, and 17 inches—were used. No significant increase in the incidence of mastitis was noted. Both

[*Turn to page 198*



H. Grady Shivers, Sr. owns the Shivers Dairy, 4 miles northwest of Carthage in Panola County, Texas. His son, Grady, Jr., assists him in operating the 460 acre, 60 cow dairy.

Like all dairymen they had experienced some trouble with mastitis and had either lost part of some cows' production or, in other cases, had to cull the cows from the herd.

"We tried one thing—then another—anything a druggist would have on hand", Grady, Jr. said. **"Some of the medicines seem to do fairly well, some no good at all."**

Then the Shivers heard about TARGOT on a farm radio program directed by Jack Timmons at Station KWKH, Shreveport, La.

"Jack said it was 'wonderful'", Grady, Jr. said, **"and we took him at his word and tried to buy some even before it was available locally. I believe we were the first to use TARGOT in this area."**

The Shivers were so highly pleased with the results of TARGOT (**"It would clear up the trouble almost over night,"** Grady Shivers, Jr. said) that they voluntarily wrote Farm Radio Director Timmons.

They said **"We want to thank you for putting us wise to using TARGOT for Mastitis. We had used many things but after hearing you discuss TARGOT, we tried it and have found it just as you say—it's wonderful."**

Grady Shivers, Jr. also reports, **"Have told several neighboring farmers about TARGOT and they like it. We were anxious to try it in the first place because we have used other Lederle products and found them very good."**

Have you used TARGOT yet? If not, try it next time your strip cup says, "Mastitis!" Remember, TARGOT gives stronger but gentle action—it contains 4 powerful, fast-acting antibiotics —AUREOMYCIN® Chlortetracycline, Neomycin, Dihydrostreptomycin and Penicillin—to get your affected cow back on the milking line with least loss of production.

TARGOT is available from your veterinarian, druggist or feed dealer.

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Tips for dairymen

From page 196

first-calf heifers and animals with 1 or more lactations considered mastitis-free were used in the experiments.

In the milking duration tests, cows were milked for both "normal" and "twice normal" durations. The results here again showed no significant increases in the incidence of mastitis.

Further indication of little association was obtained when a group of animals subjected to similar milking conditions were slaughtered and microscopic studies made of the udder tissue. Again the answer was the same—no evidence of mastitis that could be associated with vacuum levels or leaving the machine on twice the length of time required.

What does this mean? Storrs Station scientists say we had better stop blaming the mechanical milker for mastitis problems and look to more basic causes.

Since mastitis is invariably associated with infection, more investigation is needed to determine factors that make individual animals susceptible to infection and ways of preventing it.

Why you say it

Trial

Lacking anything approaching modern machinery, medieval farmers had a hard time of it. Among their most vexatious problems was separation of trash and impurities from fruits of harvest. Grain was sifted and blown to remove chaff, while wool was hand-picked in order to rid it of burrs and other impurities. From *triare*, colloquial Latin for the process of sifting and grinding, any act of separating good from bad was termed a *trial*.

Courts borrowed the ancient form word and applied it to the process of sifting evidence. After use of a jury became general, importance of picking good evidence from bad became so great that the entire legal process came to be designated as a trial.—*Boyd G. Wood*.

Drawing: Heiser

Sew like a professional

How to set in a sleeve

Here's an easy, correct way to set in a sleeve that always gives professional results! Recently we showed you how to make a sleeve, so combine these two methods for perfect sleeves every time!

Distribute fullness evenly over the entire cap of the sleeve. It's easy when the stay-stitch line and the ease line are the same. Just clip at the notches, then carefully draw up the extra fullness in the sleeve top

Successful shrinking of fullness from cap of the sleeve is best done with a steam iron and sleeveboard. Take time to work at this, as uneven shrinking will throw the grain of the fabric off. If you haven't a sleeveboard, make one by rolling several magazines

Photographs: Hopkins

Place sleeve in armhole with edges and notches matching. Pin, or baste. Stitch sleeve in place, always stitching from the sleeve side. A second row of stitching is optional. Press seam toward sleeve for a smooth line

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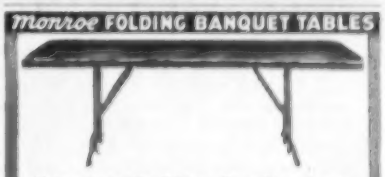

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Fill big ones with bright-colored candy. Put on coffee table, or on chest in living or dining room. Also, they make a nice gift for friends when filled with homemade cookies or candy, and they'll love it for their home

Use square ones like this on shelf in the kitchen. Fill them with spices, coffee, tea, or dried vegetables for soups. How pretty they will make your kitchen, and you'll find them very handy, too. Paint on your own labels

bottles

all through the house

Apothecary jars and other decorative bottles can be good friends and pretty accessories throughout your house. See all the ways you can use them to add color, fit an empty corner, or hold necessary articles in your kitchen, bedroom, or bathroom

By Betty Grayson

Any room in your home can be more attractive and different if you give it some thought and planning. One inexpensive and effective way is to use some of the lovely decorative bottles available today as containers for the ordinary everyday necessities, such as soap chips, foods, and other items.

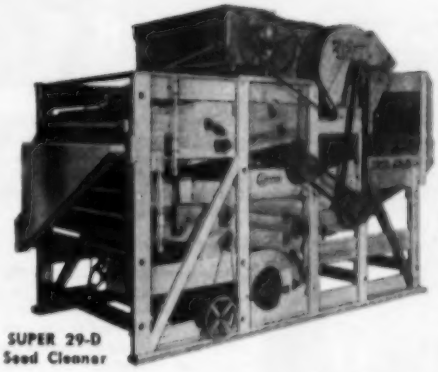
Here are just a few ideas to get you started, but there are many more ways to use these pretty bottles and jars. Small ones can be used for perfume, vitamin pills, or bobby pins—large round ones for dish gardens, cookies, or dried vegetables in the kitchen.

You'll really be surprised at the number of different arrangements in which you can use these pretty bottles and jars. Combined with pictures, lamps, or plants, they make very effective accent touches for any room in your home.

Instead of buying new bottles, you might want to use some of the lovely antique ones that may be hiding in the attic of your farm home. Whatever your choice, put your imagination to work, and try using them in interesting places in your home.

Photographs: Hopkins

Tall ones like this are wonderful in the bath when filled with colored powder puffs, or soap chips handy for washing hose. They'll look much prettier than just the box of soap or puffs, make your bathroom pretty, too



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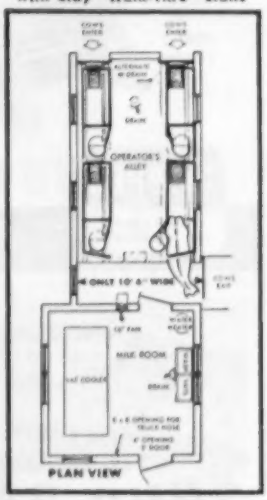

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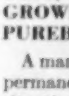

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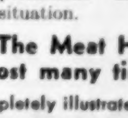

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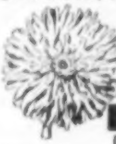

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Read all about my Big—New Improved ANCONAS. 1956 white Egg machines. For lots of large white eggs at less cost per dozen.
Write to:

Raymond S. Thomas, R. D. 5 Saltillo, Pa.

All around the farm® A page written by our readers

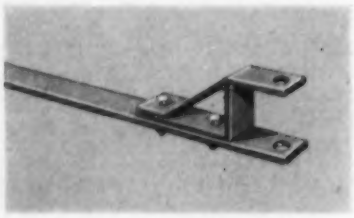
To unload gravel more easily from my truck box, I spread sets of tractor chains in the truck box. I lay these lengthwise, and cover as much of the bottom of the box as possible. To unload, I simply hook a tractor to the ends of the chains at the back end of the box. Most of the gravel will be pulled out with the chains. The remainder will be loosened and much easier to shovel. This trick has saved me time and backaches.—*O. D. L., Minnesota.*

To preserve friction tape in a condition as nearly like new as possible, I store it in a tightly closed salve or grease can. This is easier than trying to wrap the tape with the original paper.—*L. H., Ohio.*

This "lazy susan" tool and bolt storage fits under my bench and a turn of the wheel brings to hand any of the boxes. It's an idea that could be put to work

in any out-of-the-way corner. The wheel, to fit under the bench, should be small enough not to extend beyond the bench. Boxes fit between the spokes. Hooks of iron for hanging tools may be forged to hang on the spokes. The axle for the wheel is anchored to the floor or bench. Applications of the idea are nearly endless.—*D. H., South Dakota.*

A drinking straw over the spout of the oiler, I find, provides an extension spout quite satisfactory for getting oil to deeply recessed points beyond the reach of the oiler spout.—*J. L. N., Nebraska.*



The device illustrated is one I made to pull implements of various hitch heights. The attachment is made of a bar of iron 2½" wide and ¼" thick.—*D. W., Wisconsin.*

To measure the radius of a fillet or cove when no radius gauge is available, I use a socket wrench set. The wide range of sizes in most sets will permit me to find one socket that matches the radius of the article to be measured.—*W. W., Illinois.*

Our power tire pump is the gasoline engine from a discarded washing machine. We simply replaced the spark plug with a spark-plug tire pump and its length of air hose. The power to drive the engine, now an air compressor, is provided by an electric motor. A few drops of oil applied at the air intake provide lubrication. It isn't as efficient as a regular compressor, but it is an inexpensive laborsaver when a motor and discarded engine are at hand.—*C. S., South Dakota.*

To stop fuel squirting through the vent from a full fuel tank on any tractor, I soldered a metal cap an inch or so in diameter on the under side of fuel-tank cap, as shown. I then drilled a hole in the side of the cap near the point where it is soldered and another in the bottom of the cap.—*P. C. S., Indiana.*

To make our electric fence effective across a creek with high, steep banks on both sides, we hung a pipe by wires from the fence line, as shown. We swung the pipe fairly close to the water. A contrivance of this kind can be rigged up for almost any draw, and even metal curtain rods, well rod, or metal conduit can be used for the horizontals.—*C. S. E., Pennsylvania.*

Nuts don't get loose on bolts when I fasten them like this: I turn the nut on tight, then, with a hacksaw, I saw a slot in the end of the bolt. By spreading the bolt slightly with a chisel, the nut is held securely in place. When the nut is turned off the bolt with a wrench, slit closes easily.—*J. W. K., Wisconsin.*

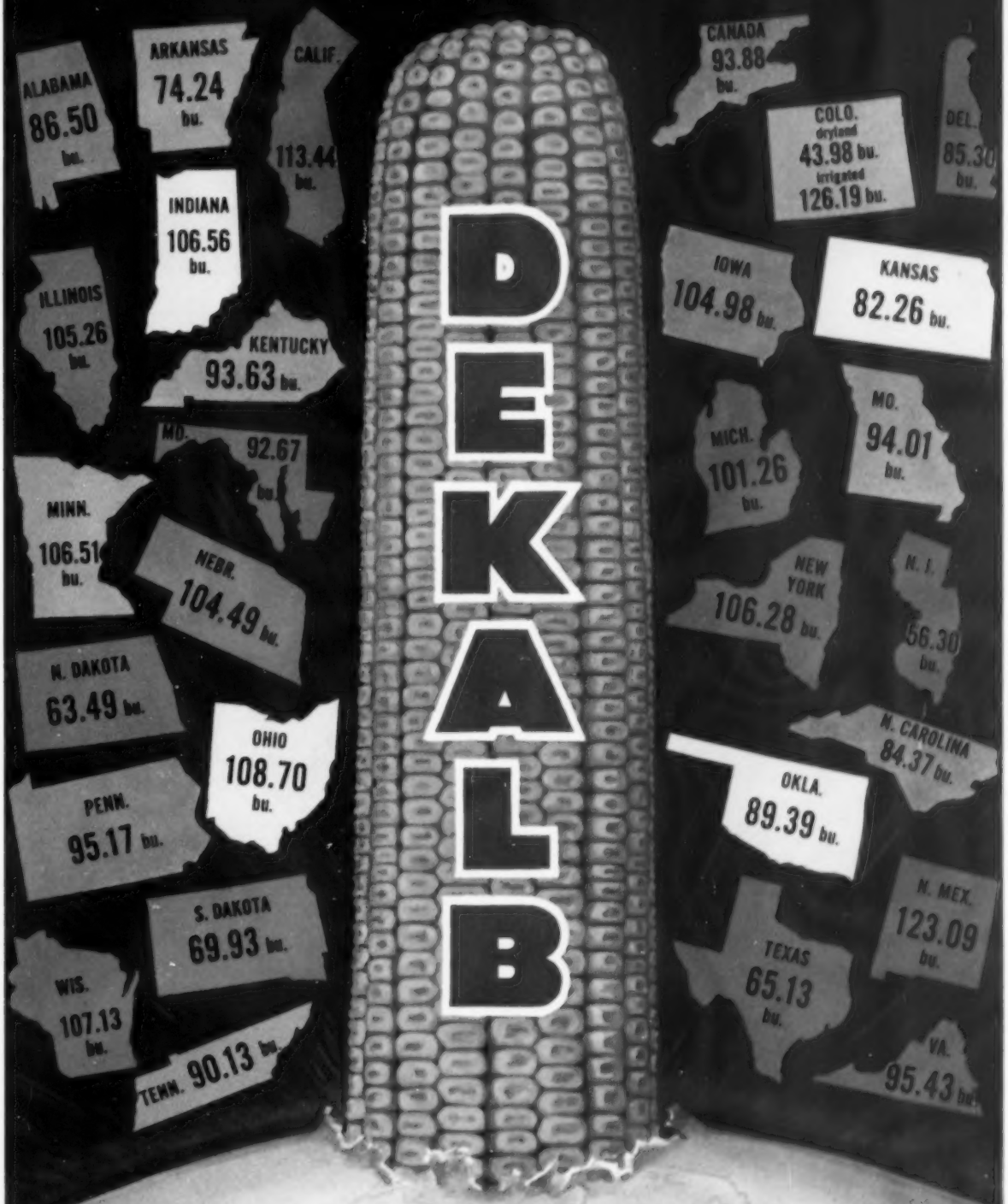
We store sandpaper in our shop in an old phonograph-record album. When the paper is inserted in the pockets—a different pocket for each grade—the number of the grit is easily read through the hole in the center of the pocket.—*E. O. C., Illinois.*

For screens over drains we make good use of discarded hammer-mill screens. They can be cut to any size, and flattened if necessary with the aid of heat from a welding torch. They effectively stop anything that might clog drainage lines.—*R. D., Ohio.*

To preserve the edge of a sharp ax and also to have a block on which to sharpen posts when repairing fences, I use a tough block of wood about 4"x 10"x14" in size. Before loading up our fence-building cart, I strike the ax solidly into the block.—*E. C. S., New York.*

Successful Farming invites you to share your ideas with the rest of our readers. We pay $5 for each item upon publication, but regret we cannot return those we don't use.—The Editors

DEKALB CORN YIELD* REPORT from 5413 Farmers!



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5413 farmers last year, averaged 100.77 bushels* of DeKalb Corn on 27,065 acres entered in the 1955 DeKalb National Selected 5-Acre Corn Growing Contest. More than 60,000 farmers have taken part in this Nation-wide contest in the past 17 years.

That it has paid these men to raise DeKalb, is shown by the figures on each state, which represent their computed state yield averages. Plant DeKalb, the Corn grown by MORE FARMERS for 16 straight years than ANY other brand.

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